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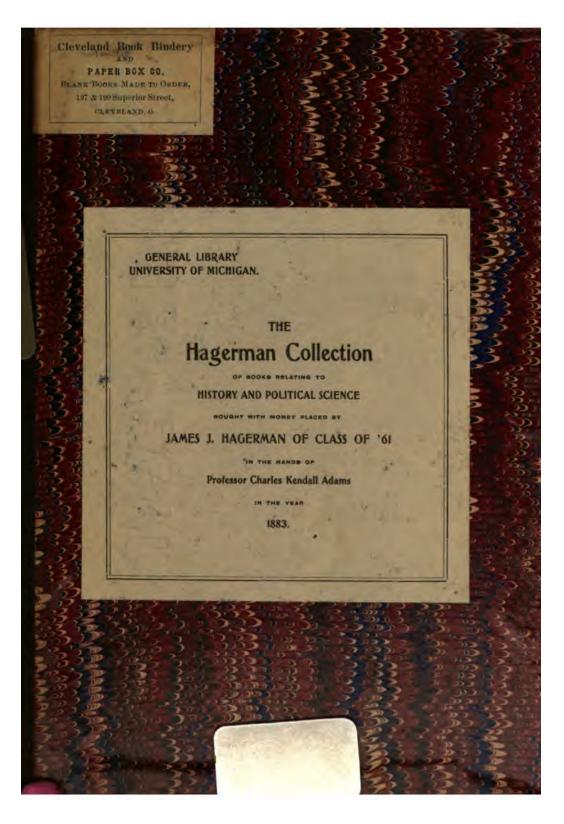
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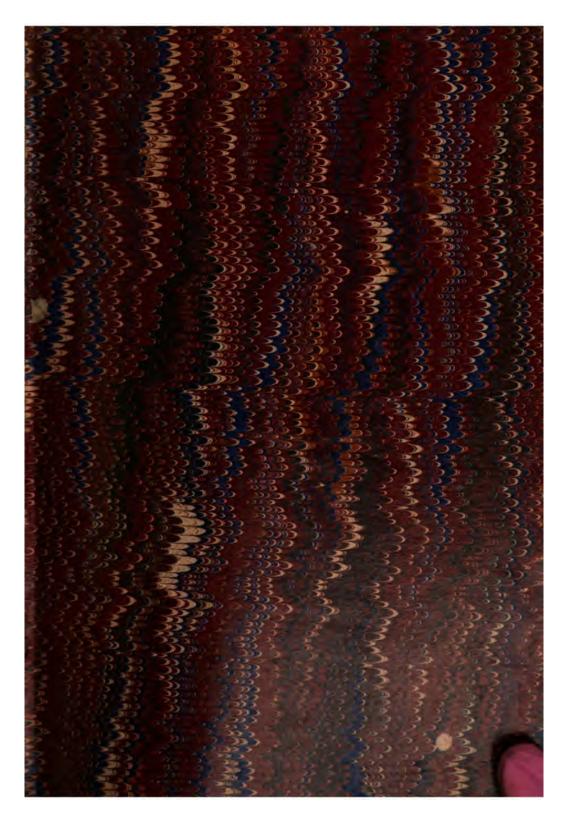
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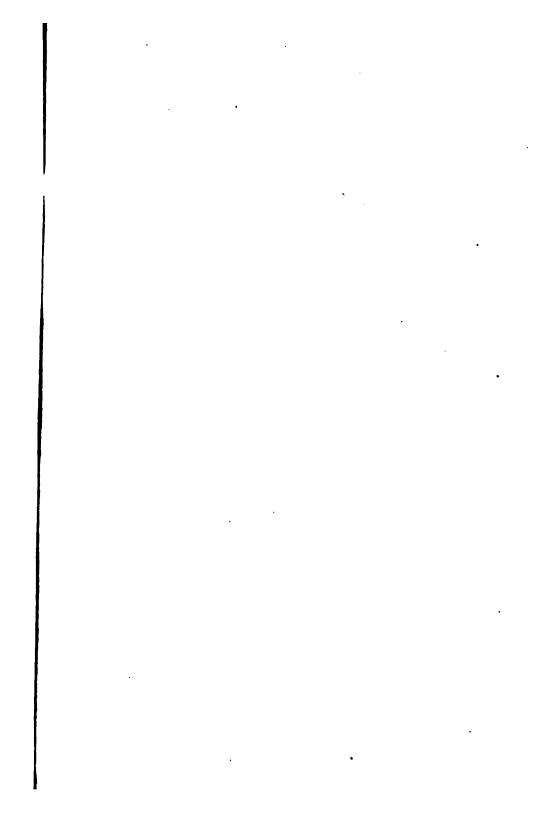
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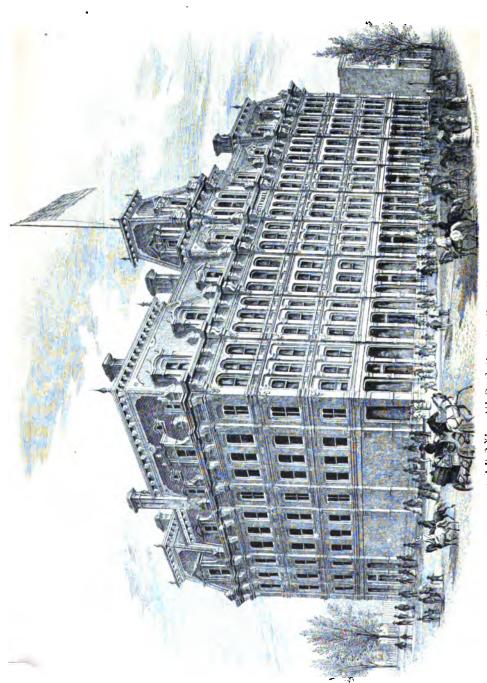
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# WORK BOUSIE GLEVELMID, O.

19772

# REPORTS

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# THE DEPARTMENTS



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Compliments of

R. R. HERRICK.

MAYOR.

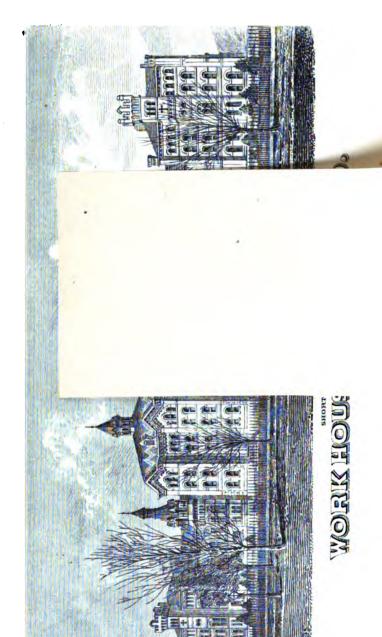
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AND

INAUGURAL ADDRESS OF MAYOR R. R. HERRICK.

Published by Order of the City Council.

CLEVELAND, O.: WISEMAN & HARVEY, PRINTERS, 105 SENECA STREET. 1879.



19772

#### REPORTS

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# THE DEPARTMENTS OF THE GOVERNMENT OF THE

# CITYOFCLEVELAND

FOR THE

YEAR ENDING DECEMBER 31, 1878,

TOGETHER WITH

THE ANNUAL MESSAGE OF MAYOR W. G. ROSE,

AND

INAUGURAL ADDRESS OF MAYOR R. R. HERRICK.

Published by Order of the City Council.

CLEVELAND, O.: WISEMAN & HARVEY, PRINTERS, 105 SENECA STREET.

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#### CITY GOVERNMENT

OF THE

## CITY OF CLEVELAND.

MAYOR,

R. R. HERRICK.

CITY CLERK,

W. H. ECKMAN.

CITY SOLICITOR,

WILLIAM HEISLEY.

CITY AUDITOR,

HENRY FORD.

CITY TREASURER,

S. T. EVERETT.

CITY CIVIL ENGINEER,

B. F. MORSE.

#### TABLE OF CONTENTS.

The City Council and Council Committees	PAGE.
The Departments	6-8
Annual Message of Mayor W. G. Rose	9-52
Inaugural Address of Mayor R. R. Herrick	53-60
Annual Report of the Board of Park Commissioners	63-66
Annual Report of the Board of Improvements	67-80
Annual Report of the City Civil Engineer	81-100
Annual Report of the Street Commissioner	101-124
Annual Report of the City Auditor	125-172
Annual Report of the City Treasurer	173-186
Annual Report of the Sinking Fund Commissioners	187-194
Annual Report of the City Clerk.	195-200
Annual Report of the City Solicitor	201-220
Annual Report of the Trustees of Water Works	221-314
Annual Report of the Police Commissioners	315-372
Annual Report of the Health Officer	373-418
Annual Report of the Clerk of Police Court	419-426
Annual Report of the Board of Fire Commissioners	427-474
Annual Report of the Directors of the Workhouse and House of Cor-	
rection	475-528
Annual Report of the Board of Infirmary Directors	527-548
Amusal Deposit of the Donal of Comptony Twistons	540_584

## THE CITY COUNCIL.

GEO. W. GARDNER, PRESIDENT. N. A. GILBERT, PRESIDENT PRO-TEM.

W. H. ECKMAN, CLERK. '

JNO. VANEK, 1st Ass't Clerk.

J. C. DELAMATER, 2D Ass't CLERK.

#### FRANK HARRIS, PAGE.

Wards.	Names.	Elected.	Names.	Elect'd
1st	T. M. WARNER	1878	CHAS. BURNSIDE	
2d	GEO, W. GARDNER	1878	+David Morison	1879
3d			+C. C. SCHELLENTRAGER	1879
4th		1878	+P. M. SPENCER	1879
5th.	J. J. SMITH.	1878	+THOS. REILLEY	187
6th	N. A. GILBERT	1878	J. B. GLENN	. 1879
7th	ARTHUR DEVINE	1878	H. BOWLEY	1879
8th	JOHN DARRAGH	1878	E. COWLEY	187
9th	H. M. TOWNSEND	1878	†FRANKLIN LEONARD	187
10th	C. B. CLARK	1878	G. L. Luce	187
11th	*C. H. SALISBURY	1879	MILTON A. GROSS	
	*T. P. O'SHEA		HENRY HOFFMAN	187
18th			THEO. F. BRANCH	187
14th			T. G. CLEWELL	187
15th		1878	A. A. AXTELL	187
	*ALBERT BARNITZ		+A. K. SPENCER	187
17th	A. H. STONE		W. F. WALWORTH	187
18th			W. H. LAMPRECHT	187

<sup>\*</sup>Elected in 1879 to fill an unexpired Term, \*Re-elected.

#### STANDING COMMITTEES.

APPROPRIATIONS	Warner, Branch, Leonard.
BATHING AND BATH HOUSES	Schellentrager, P. M. Spencer, Glenn.
BREAKWATER	Segur, Luce, Grimshaw.
BREAKWATER CARPIAGES AND EXPRESS WAGONS	Devine, Morison, Salisbury.
CLAIMS	Morison, Clewell, Smith.
CLAIMS DEPARTMENT EXAMINATION	P. M. Spencer, Walworth, Warner.
ELECTIONS	Walworth, O'Shea, Lamprecht.
FINANCE	A. K. Spencer, Gilbert, Lamprecht.
FIRE AND WATER	Lutton, Morison, Devine.
HARBORS AND WHARVES	Luce, Devine, O'Shea.
HOUSE OF CORRECTION	Clewell, Lutton, Schellentrager.
HEALTH AND CLEANLINESS	Leonard, Axtell, Glenn
Infirmary	Townsend, Segur, Bowley
Jrdiciary	Gilbert, Reilley, Branch
LIGHTING	Stone, Warner, Hoffman
MARKETS	Burnside, Leonard, Curtiss
MILITARY AFFAIRS	Grimshaw, Gilbert, Barnitz.
ORDINANCESPARKS AND PUBLIC GROUNDS	Clark, A. K. Spencer, Buettner.
PARKS AND PUBLIC GROUNDS	Darragh, Salisbury, Clewell.
POLICE	Barnitz, Segur, Burnside.
PRINTING	Glenn, Smith, Decker
Public Buildings	Axtell, Stone, P. M. Spencer
PUBLIC OFFICES AND OFFICERS	Smith, Burnside, Bowley.
RAILROADS	Gross, Townsend, Darragh
RULES	
SCHOOLS	Buettner, Barnitz, Gross
STREETS	Curtiss, Stone, Axtell.
STREETSSTREET RAILROADS	Lamprecht, Clark, A. K. Spencer.
VIADUCT AND CANAL LANDS	Hoffman, Cowley, Grimshaw.
WATER WORKS	Branch, Cowley, Buettner,
TAXES AND ASSESSMENTS	Decker, Schellentrager, Curtiss.

#### DEPARTMENTS.

#### BOARD OF IMPROVEMENTS.

HON. R. R. HERRICK, PRESIDENT EX-OFFICIO.

J. M. CURTISS.

W. H. HAYWARD,

CHAIRMAN COM. ON STREETS.

CITIZEN MEMBER.

B. F. MORSE,

FRANK RIELEY,

CIVIL ENGINEER. STREET COMMISSIONER. W. E. SHERWOOD, CLERK.

Regular Meetings on Monday and Friday, at 10 A. M.

#### POLICE.

#### Board of Commissioners.

HON. R. R. HERRICK, PRESIDENT Ex-OFFICIO.

JOHN M. STERLING, JR., LOUIS HAUSHEER. GEORGE W. SHORT, JAMES R. SPRANKLE. \*

THOMAS KING, SECRETARY.

Regular Meetings of the Board on first and third Tuesday of each Month.

J. W. SCHMITT, SUPERINTENDENT.

JAS. MCMAHON, SR. CAPTAIN.

H. HŒHN, JR. CAPTAIN.

H. HOLZWORTH, DETECTIVE CAPTAIN.

W. B. REZNER, HEALTH OFFICER.

PETER F. YOUNG, POLICE JUDGE.

A. H. LEWIS, PROSECUTOR.

WM. BAXTER, CLERK.

FRANK KARDA, ASST. CLERK.

CHAS. HALL, ASST. CLERK.

#### FIRE.

#### Board of Commissioners.

W. H. RADCLIFFE, PRESIDENT.

W. H. LUTTON, CHAIRMAN COMMITTEE ON FIRE AND WATER.

Citizen Members:

GEO. GLOYD.

H. L. MELTON.

JOS. SLAGHT.

A. J. SPENCER, SECRETARY.

Regular Meetings of the Board on the second and third Thursdays of each Month, at 7:30 P. M.

JOHN BENNETT, CHIEF.

JAS. DICKINSON.

H. H. REBBECK,

JOS. SPEDDY,

FIRST ASST. CHIEF.

SECOND ASST. CHIEF. THIRD ASST. CHIEF.

#### PARKS.

Board of Commissioners.

DR. A. EVERETT, PRESIDENT.

J. H. WADE.

J. H. SARGENT.

W. H. ECKMAN, CLERK.

Board meets at the call of the President.

#### WATER WORKS.

Board of Trustees.

TRUMAN DUNHAM, PRESIDENT.

N. P. BOWLER

S. W. SESSIONS.

H. C. HAWKINS, SECRETARY.

JOHN A. WHITELAW, SUPERINTENDENT AND ENGINEER.

Board meets on the fifth of each Month.

#### WORKHOUSE AND HOUSE OF CORRECTION.

#### Board of Directors.

HARVEY RICE, PRESIDENT.

J. H. WADE, VICE PRESIDENT.

S. C. BROOKS.

GEORGE H. BURT.

WILLIAM EDWARDS.

W. D. PATTERSON, SUPERINTENDENT.

JOHN A. McINTOSH,

W. C. LOOMIS,

DEPUTY SUPT. WORKHOUSE.

DEPUTY SUPT. REFUGE DEPT.

MRS. MARGARET A. PATTERSON, MATRON. Board meets on the first Tuesday of every Month, at 2:30 P. M.

#### INFIRMARY.

#### Board of Directors.

JOHN GILL, PRESIDENT.

WILLIAM CUBBON.

J. C. BARTLETT.

JAS, CHRISTIAN, SUPT.

JACOB BLUIM, CLERK. THOS. ROME. STEWARD.

B. W. HOLLIDAY, PHYSICIAN.

MRS. THOS. ROME, MATRON.

Regular Meeting of Board first Tuesday of each Month. ----<u>-</u>

#### Cemetery Trustees.

E. H. THEIS, PRESIDENT.

G. A. HYDE, TREASURER.

L. W. BAILEY, SECRETARY.

JAS. PARKER.

Board meets first Monday in each Month.

JNO. E. COLE, SUPT. WOODLAND CEMETERY.

W. BINGHAM.

E. M. BISHOP.

SUPT. ERIE ST. CEMETERY.

VALENTINE WORTH, SUPT. MONROE ST. CEMETERY.

JAS. McGUFFY, SUPT. 18TH WARD CEMETERY.

#### Sinking Fund Commissioners.

H. B. PAYNE,

L. CASE,

CHAS, HICKOX.

J. H. WADE.

#### Board of Revision.

HON. R. R. HERRICK,

GEO. W. GARDNER, WM. HEISLEY.

#### \_\_\_\_\_ Markets.

C. BECK, SUPERINTENDENT.

GEO. A. MCKAY, CITY SEALER.

Harbors and Wharves.

CAPT. JOHN VARNER, HARBOR MASTER.

#### ANNUAL MESSAGE

OF THE

# MAYOR

то

# THE CITY COUNCIL,

DELIVERED APRIL 21, 1879.

Hon. W. G. ROSE, Mayor.

INAUGURAL ADDRESS

OF

Hon. R. R. Herrick, Mayor.

. . • : • •

#### Mayor's Annual Message.

GENTLEMEN OF THE COUNCIL:

This evening marks the close of a municipal term.

For the past two years the interests of the city have been committed to our care. Before surrendering these trusts, it is of the utmost importance that we satisfy the people who so generously confided in us, that we have not betrayed their confidence. The municipal transactions of 1877 were fully presented to you in my last annual message. Before entering upon the financial details of 1878, I deem it proper to call the attention of your Honorable Body to many causes for congratulation during the past year.

Our city has been unusually free from epidemic or contagious diseases. The death rate has been lower than in any year since 1874. No organized attempt has been made to disturb the public peace by riot or incendiarism, as in many other cities. The poor of our city, although many of them have been hard pressed, because unable to obtain steady work, have generally, on account of the marked decline in the cost of all the necessaries of life, been able to support themselves and families by occasional employment.

The rapid, though deceptive, enhancement of values during the eleven years following the out-break of the civil war so stimulated trade and industry, that when the panic came the shock was so great that their recovery and growth will be necessarily slow. But our resources as a nation are

unlimited, and idleness cannot be long maintained in the face of an increasing foreign demand for the products of our soil, our mines and manufactories. Already there are many hopeful signs of a speedy return to better times; and we welcome them with feelings of profound gratitude to Him who in the time of our greatest need has mercifully blessed us with most bountiful harvests.

#### RATE OF TAX LEVY.

The following table shows the rate of tax levy for the operating expenses of the City Government for the past four years, the proceeds arising from said levies, and the Auditor's estimate of levy and proceeds for the year 1879:

TABLE NO. 1.

	}	·e	11.		_		Rate of Levy.											Proceeds of Levy.			
1875					,	12	16-20														<b>\$</b> 908,977 15
1876						I 2	5-20													,	871,049 94
1877						II	5-20														802,747 91
1878						9	13-20														667,367 41
							315-10														653,363 75

From this it will be seen that the rate of levy has been annually reduced, and that the proceeds for 1879 as estimated by the Auditor will be \$14,003.66 less than for 1878; \$149,383.16 less than for 1877, and \$217,686.19 less than for 1876. In other words, the operating expenses of the City Government have been reduced during the past two years about 25 per cent. The rates of levies and collections for sinking fund and interest on the public debt and for

school purposes are not included in the above table, as the last is under the control of the Board of Education, and the former cannot properly be classed among operating expenses.

#### RECEIPTS AND DISBURSEMENTS.

An exhibit of the receipts and disbursements in 1878, for all purposes except for maintenance of public schools is presented in the following:

TABLE No. 2.

Name of Fund.	Receipts, Includ- ing Balance on Hand, Jan. 1st, 1878.	Disbursements.	Balance on Hand Jan. 1, 1879.
Bridge Fund	8 43,656 20	\$ 38,357 71	\$ 5,298 49
Dredging Fund	103,147 27	97,390 41	5,756 86
Cemetery Fund	2,167 42	1,914 78	252 64
Fire Departm't Fund	193,599 17	159,970 44	33,628 73
General Fund	163,033 70	132,076 97	30,956 73
Gas Fund	139,748 66	131,304 19	8,444 47
House of Correct'n Fund	138,788 17	132,813 88	5,974 29
Interest Fund	498,756 56	417,237 24	81,519 32
Infirmary fund	83,616 00	63,985 17	19,630 83
Market Fund	134,324 21	108,219 43	26,104 78
Police Court Fund	11.058 41	9,382 03	1,676 38
Park Fund	16,773 41	6,643 07	10,130 34
Police Dep'tm't Fund	170,737 47	157,548 71	13,188 76
Sinking Fund	172,392 23	160,000 00	12,392 23
Street Dep'tm't Fund	85,479 02	67,189 58	18,289 44
Total	\$1,957,277 90	\$1,684,033 61	\$273,244 29

The total revenue of the City Government for 1878, as shown by the above, was \$1,957,277.90, and the disbursements, \$1,684,033.61, leaving a surplus of \$273,244.29, to apply on the expenses of the current year.

It also appears that each of these funds had a balance standing to its credit at the end of the year, a fact as unusual as it is satisfactory. The following table, taken from the Auditor's report, shows the purpose for which the disbursements were made:

TABLE No. 3.

	Ordinary Espenses.	Work	New Buildings Lands and other Improve- ments.	Cost of Court, Judges and and Mis. Expenses.	Bills Con- tracted in 1877, and Paid in 1878.	Total Disburse- ments.
Bridge Dredging Fire Dep t General Gas. House of Cor Infirmary Market	146,714 94 116,470 51 105,690 04 108,455 21 49,197 29 7,930 22	<b>\$</b> 33.241 48	\$ 3,235 66 5,400 11 1,491 45		\$ 14,567 10 32,175 61 11,784 80 6,723 15 22,378 49 10,058 56 9,284 89 1,475 41	74,262 of 159,970 44 132,076 9 131,304 10 132,813 88
Park Police Dep't ' Street	6,003 57 155,148 71		454 78	16,186 55	775 13 184 72 2,400 00 3,768 54	6,643 0
Total		-	-	\$125,949 49	\$124,570 AD	<i>\$</i> -1//1/4- /.
Add to t	this the	followii	ng: 		. \$41	7,237 24
Add to to to Interest Fu	this the und	followii · · ·	ng: 		. \$41°	7,237 24 0,000 00
Add to to Interest Fu Sinking Fu Cemetery	this the und . und Disburse	followin	- ng: 		. \$41 16	7,237 25 0,000 00 1,914 78
Add to to to Interest Fu	this the und	following to the second	ng: · · · · · ·		. \$41 16	7,237 2: 0,000 00

It will be noticed that of these disbursements, the sum of \$577,237.24, was used in payment of maturing bonds and interest on our public debt; and the sums of \$23,128.33 for dredging and \$4,011.54 for Infirmary, were in payment of accounts overdrawn in 1877 to make good the deficiencies of former years.

As shown in my last annual message, the overdrawing of the Infirmary Fund was caused by the payment from the operating expenses of 1877, on the construction account of new buildings erected in 1876, and to pay \$5,000 bonds issued for same purposes in 1874; and in the matter of the Dredging Fund to pay certificates of indebtedness issued in 1872, '73 and '74, upon estimates for dredging done in those years, amounting to \$31,584.31.

It will also be noticed in Table No. II, that the disbursements for dredging in 1878, were \$97,390.41, and in Table No. III, that the whole cost for dredging done in 1878, was \$8,249.86, and that therefore the balance of the disbursements for 1878, amounting to \$89,140.55, was to pay for work done in former years.

The amount expended in 1878 to meet the obligations incurred in preceding years, is shown to have been \$900,641.26, and the ordinary operating expenses of the City Government, \$783,392.35.

A comparative statement of the operating expenses of the City Government for the past four years, as taken from the report of the City Auditor, is as follows:

				$T_A$	ABLI	E N	Ο.	4.			
YEAR.										EXPENDITUE	RES.
1875										\$887,078	26
1876										930,748	<b>12</b>
1877										888,488	29
1878										783,392	35

From which it will be seen that the operating expenses in 1878 have been reduced \$103,685.91 from that of 1875; \$147,355.77 from 1876, and \$105,095.94 from 1877.

#### PUBLIC DEBT.

The general indebtedness of the city, outstanding January 1st, 1878, is shown by the following table, taken from

the Auditor's Annual Report, also the general bonds issued and amount paid during 1878:

#### TABLE No. 5.

GENERAL	BON	DS C	UTE	STAN	DJN	IG J	AN	U <b>A</b> R	Y	1sт, 1878:
Water Works										. \$1,725,000
Funded Debt										. 1,464,000
Infirmary .										60,000
Dredging .										. 51,000
Park										. 315,000
Canal and Car	nal I	ock	s .							. 264,000
Viaduct				•						. 1,568,000
House of Corr	recti	on .								. 200,000
~ 1 1	•					•	•	•		. 414,000
Total .						•				. \$6,061,000
(	<b>ENE</b>	RAL	во	NDS	isst	ED	IN	18	78	: •
Funded Debt										<b>\$178,000 00</b>
Canal										8,000 00
Viaduct .										567,000 00
Dredging .		•					•			<b>55,000</b> 00
Total .		•	•.							\$808,000 00
	GENI									
Water Works						<b>\$2</b> 5	•			
Funded Debt		•				133				
Infirmary .							,00			•
• • • • • • • • • • • • • • • • • • • •							00,			
House of Corre	ectio	n.			•		<b>5,</b> 00			
School		•	•	•	•	5	,00	0 (	)()	
Total .			•		•			•	,	. \$191,000 00
Total Increase	in 18	578								\$617,000 00
Total Outstand			uary	y 1s	t, 1	879				\$6,678,000 00

From this it appears that the general bonded indebtedness of the city was increased during the past year, \$617,000; but it will be seen hereafter that not one single bond of the \$808,000 issued in 1878, is chargeable to debts contracted by the present administration.

#### SPECIAL INDEBTEDNESS.

The following table taken from the Auditor's Report, shows the amount of the special bonds outstanding at the beginning of 1878, also the amounts issued and paid during the year:

BONDS OUTSTANDING J.	anuary 1st, 1878.
Street Opening Bonds	<b>\$1,010,463</b> 35
Street Improvement Bonds,	1,335,441 69
Sewer Bonds	647,259 54
Total	\$2,993,164 58
BONDS ISSUED	in 1878:
Street Opening Bonds	<b>\$257,600</b> 00
Street Improvement Bonds,	. 49,038 16
Sewer Bonds	
Total	\$313,538 16
BONDS PAID	in 1878:
Street Opening Bonds	<b>\$</b> 201,256 31
Street Improvement Bonds	399,513 01
Sewer Bonds	
Total	
Special Debt Outstanding Janu	nary 1st, 1879: \$2,606,100 00
From the foregoing table it	will be seen that the special

indebtedness of the city has been diminished, during the year, by the amount of \$386,064.58.

Besides the bonds above named, there are two other forms of special indebtedness. One evidenced by certificates now outstanding, to a limited extent, issued to contractors, bearing interest and payable on the collection of the tax levied to pay for the improvements which they represent. are now but \$17,798.99 of these certificates outstanding. In addition to these there were, as appears by the City Auditor's report, on the first of January, 1879, special improvement accounts overdrawn to the amount of \$237,-937.85 That is, as explained in my message of last year, when special improvement bonds belonging to these various funds, have matured from year to year, instead of reissuing the bonds, money has been borrowed from all funds in credit for whatever purpose, to meet these maturing obligations.

The amount thus borrowed is a part of our special debt, and at the close of the fiscal year, it amounted to the sum above named.

Our total indebtedness, then, in all forms may be stated as follows:

General Bonds Outstanding						<b>\$6,678,000</b>	00
Special Bonds Outstanding	•	•		•	•	2,606,100	00
Total	•,					\$9,284,100	00
Certificates of Indebtedness	0	ute	tar	ıdi	ng	17,798	99
Temporary Loans from other	Fw	nds	to	me	et	•	
Special Bonds, as indica	ited	l b	у (	Ove	er-		
drawn Accounts	•				•	237,937	85
Total	_					<b>*</b> 9.539.836	84

For the purpose of satisfying the taxpayers that none of the general or special bonds issued in 1878, were on account of indebtedness incurred in that year, I deem it proper to refer to the annexed statement of Auditor Ford, submitted to your Honorable Body, under date of February 3d, 1879.

Statement of all Bonds Issued by the City of Cleveland in 1878, Showing for what Purpose, and the Proceeds of Sale.

FOR WHAT PURPOSES.	Improvements Authorized.	Amount of	Proceeds of	
For Street Damages.	Impro Auth	Issue in 1878.	Sale.	
Allen Street Opening	1872	\$ 4,700 00	\$ 4,853 69	
Bond Street Opening	1873	35,000 00	36,144 50	
Bailey Street Opening	1873	1,000 00	1,032 70	
Central Place Opening	1872	15,500 00	16,006 85	
Courtland Street Straightening,	1873	1,800 00	1,858 86	
Columbus, Pearl and Walworth Run Im-			_	
provements , ,	` 186g	33,400 00	34,492 18	
East Prospect Street Opening	1872	4,500 00	4,647 15	
Grand Avenue Damages	1875	1,200 00	1,200 00	
Giddings Avenue Opening	1872	1,300 00	1,342 51	
Harvard Street Damages	1876	1,600 00	1,652 32	
Lincoln Avenue Damages	1874	4,100 00	4,234 07	
March Street Extending	1873	3,500 00	3,614 45	
Miles Street Damages	1875	300 00'	300 00	
Payne Avenue Opening	1874	89,600 00	92,529 92	
Russell Avenue Opening	1873	7,600 00	7,848 52	
Seneca Street Opening,	<b>'72–'7</b> 5	6,000 00	6,196 20	
St. Clair Street Widening	1874	28,300 00	29,225 41	
Summit Street Opening	1872	6,300 00	6,5 <b>0</b> 6 or	
Slater Street Opening	1873	9,100 00	9,397 57	
Woodland Hills Avenue Damages	1876	2,800 00	2,891 56	
Total Street Damages	'	\$257,600 00	\$265,974 47	

Street Improvements.	Year.	Amount of Issue in 187	8. 	Proceeds o <sub>s</sub> Sale.		
Atlantic Street, Culvert	1875	\$ 1,000 (	10	\$ 1,032	70	
Broadway Paving—Union to Miles . Broadway Paving—Independence to	1874	19,000		19.621		
Union	1872	2,500 (	ю	2,581	75	
Beckwith Street, Grading	1875	1,200 (	ю	1,239 2		
Chestnut Ridge, Grading	1874	4,600 (	ю	4,750		
Euclid Avenue Paving-West of Erie	1872	5,000 (		5,163		
Lincoln Avenue Culvert	1875	4,500 (	00	4,647	15	
Seneca Street Paving	1875	4,000 (		4,130 8	80	
St. Clair Street Paving		7,238		7,238		
Total Street Improvement		<b>\$</b> 49,038	6	\$50,405	02	
-					-	
Sewers,						
Danadanan Caman		9.000	_ _	*	_	
Broadway Sewer	1876	\$ 2,300 ( 4,600 (		\$ 2,375 ; 4,750 .		
Total Sewer		\$ 6,900 (	— — ю	<b>\$</b> 7,126 1	13	
General.	Prior	-				
		!	-		_	
Funded Debt	1874	\$ 178,000	oo  <b>8</b>	185,814 2	20	
	1876	55,000		55,327		
Canal	72-76			8,311		
Viaduct ,	' <b>72–'7</b> 9			578,397		
Total General	,	808,000	00 \$	827,851	55	
Aggregate.		\$1,121,538	16 \$	31,151,357	1,	

The \$178,000 of Funded Debt Bonds were issued, and the proceeds of sale, including accrued interest and premium, amounting to \$186,573.67, were applied to make good the deficits in the following funds, to wit:

Street Intersection Fund							<b>\$</b> 88, <b>4</b> 84 <b>22</b>
Special Road Fund					٠.		59,048 96
Steam Road Roller Fund							3,417 09
Nicholson Pavement Roy	alty	<b>y</b> ]	Fun	ıd			34,863 93
Interest Fund							759 47

These overdrafts have been of long standing, some of them reaching as far back as 1870, and are the fruits of the pernicious system of charging expenditures to funds having no credit, as explained in my last annual message.

The \$8,000 Canal Bonds were issued in pursuance of an Act of the General Assembly, of April 29th, 1872, requiring the city to make certain improvements in order to obtain title to the canal bed. The \$567,000 of Viaduct Bonds were issued in pursuance of the Supplemental Viaduct Act of April 1876. These are matters in which the present administration had no alternative except to complete the work commenced by our predecessors.

The dredging for which the \$55,000 of bonds were issued was done several years ago, and the original bonds having fallen due without money in the Treasury to pay them, it became absolutely necessary to extend the time of payment by a re-issue.

So much for the general bonds issued in 1878, and as for the special bonds, the report of the Auditor shows that they were issued to extend the time of payment of other bonds issued for the same purpose, at the dates and for the improvements specified in his statement. The collection of the taxes upon which the city relied for payment of these bonds had been delayed by injunction suits pending in the various Courts, and for this, and other causes, the city, having no funds in hand with which to meet these maturing obligations, had no choice but to re-issue a like amount.

It is clearly shown by this, that the whole amount of bonds, to wit: \$808,000 general, and \$313,538.16 special, aggregating \$1,121,538.16 issued in 1878, and in 1879 to this date, were solely on account of improvements, general and special, authorized during a series of years from 1869 to 1876 inclusive.

#### CITY BONDS.

In my last annual address, I called attention to the fact that prior to the commencement of this administration, the bonds of the city had been sold in the eastern markets by the personal efforts of the City Treasurer; and that during 1877, the Finance Committee of the City Council had adopted the plan of advertising and receiving open bids for the purchase of them. I then remarked that the success attending the first sales justified the Finance Committee in making additional experiments in the new method, and recommended that it be continued until it should be established beyond question that better prices could be obtained by private sale. Since then the General Assembly of our State, influenced somewhat, probably, by the good results manifested in the case of the City of Cleveland, has passed a law which requires all cities in the State to pursue the same course in the sale of their bonds, and prohibits their negotiation at private sale. I desire simply to add, that all sales of our bonds made during the past year have brought premiums varying from five-sixteenths of one per cent. to

four and thirty-nine-hundredths per cent., which proves the wisdom of our Finance Committee in primarily adopting this method and of the Legislature in requiring it for the future.

# SINKING FUND.

The Fund Commissioners, in their annual reports for 1878, show the same successful management as in former years. The net income for 1878 was \$117,625.08.

The following items constituted the Sinking Fund January 1st, 1879:

7,000 Shares stock L. S. & M. S. R. R. Co.,		
par value	\$700,000	00
2,000 Shares stock N. Y. C. & H. R. R. Co.,		
par value	200,000	00
L. S. & M. S. R. R. Co. 7 per cent. Bonds,		
par value	345,000	00
C. & N. W. R. R. Co. 7 per cent. Gold	240.00	
Bonds, par value	<b>250,0</b> 00	00
Jamestown & Franklin R. R. Co. 7 per cent.	00.000	^^
Bonds, par value	30,000	00
Cincinnati & Indianapolis R. R. Co. 7 per	0£ 000	00
cent. Bonds, par value	25,000	w
Cleveland City Water Works 7 per cent.	300,000	ΔΛ
Bonds, par value	300,000	U()
Bonds, par value	12,500	٥٥
Cleveland City House of Correction 7 per	12,000	017
cent. Bonds, par value	40,000	00
Cash on Deposit	190	53
Cable of Exoposite Control of Control		_
Total	<b>\$1,902,69</b> 0	53
Total	86,000	00
Balance	\$1,816,690	53
On the first day of January 1878 the na		

On the first day of January, 1878, the par value of the securities which constitute our Sinking Fund was \$2,109,-357.21.

The history of the Sinking Fund has been given so often that you are doubtless familiar with it, and I should not tax your time further on this subject but for the fact that recently the question has been raised, and discussed with much warmth in the Council and through the public press, "what shall be done with the unpledged surplus of the Sinking Fund?" I desire simply to call your attention to a few facts and figures which show the results and indicate the possibilities of this Fund, for the purpose of impressing upon your minds how important a factor it has been, and should still be, in our fiscal affairs. In the elaborate and excellent history of the Fund contained in the Annual Report of City Auditor Thomas Jones, Jr., January 1, 1876, is to be found the following statement:

THE SINKING FUND-1863 TO 1876.

January	1,	1863,	Total Cash	and Assets,	<b>\$</b> 332,059	07
• (	1,	1864,	"	"	422,203	36
"	1,	1865,	"	66	470,858	91
"	1,	1866,	"	"	569,143	<b>59</b>
"	1,	1867,	"	"	597,272	<b>73</b>
66	1,	1868,	"	"	933,923	<b>78</b>
•6	1,	1869,	"	46	1,008,838	<b>59</b>
46	1,	1870,	"	"	1,146,100	68
"	1,	1871,	. "	66	1,209,860	93
"	1,	1872,	"	•6	1,311,550	<b>79</b>
"	1,	1873,	"	"	1,551,106	41
"	1,	1874,	"	66	1,688,793	79
"	1,	1875,	66	"	1,761,543	44
66	1,	1876,	66	66	1,863,736	41

That is, in thirteen years, without one dollar addition from tax levy or other kindred sources, it earned for the City \$1,531,677, an annual average of \$117,821. From an Juary 1, 1876, to January 1, 1879, the results of its manage-

ment furnish still more practical illustrations of its great importance to the taxpayers of Cleveland. In these three years it has paid \$425,000 of our public debt, and this, too, without perceptibly impairing its earning power; its par value being nearly the same at the end of three years—after this large payment—as at the beginning, January 1, 1876.

The simple statement of the foregoing facts, it seems to me, should answer the question as to the future disposition of this surplus.

The general bonded indebtedness of the City to-day is \$6,678,000. Here is a resource, which, if left in the hands of the Commissioners, without a cent of tax levy to maintain it, can be made to cancel, every three years, over four hundred thousand dollars of this indebtedness. It has been claimed that, under the compact of union with Ohio City, the remainder of this Fund, after paying the amounts pledged to the Water Works debt, should be divided among the original seven wards for the purchase of parks or such other kindred luxuries as might seem to them desirable.

It is not my purpose to discuss the legality of this claim. If, however, by the terms of annexation, the power is vested in the trustees of the original seven wards to dispose of this surplus fund, I desire to urge upon them, most earnestly, that it be applied to the payment of our general bonded debt, and to no other purpose whatever. The diversion of this Fund to any other purpose would be equivalent to adding \$1,500,000 to our present indebtedness, and the tax-payers of the original seven wards would be compelled to pay their proportion of the same. It would be unjust to those living in the territory not a party to the compact of annexation.

About three-fourths of the territory now embraced in our corporate limits has been annexed since Ohio City became

a part of Cleveland. The more recently added wards help to pay all our debts, whether contracted for improvements in the original seven wards before they became a part of the city or since; and in equity they are entitled to their pro rata share of all our assets.

It also appears from Auditor Jones' report that the whole amount of taxes levied on the original seven wards for the maintenance of this fund was \$61,993.59, of which \$24,000 were levied and collected prior to annexation and \$37,193.59 since. And just here it occurs to me to suggest that the original seven wards have already received what they should in equity accept as an equivalent for their claim to the exclusive right in the surplus of this fund. Since 1872 the city has purchased land for park purposes, in this original territory, amounting to \$234,579.32; and if we add to this the cost of improving the same, during this period, to wit: \$160,811.23, it will aggregate \$395,390.55.

The whole city, including the new territory and all, is now taxed to pay the interest on bonds issued for this purpose. The principal of this debt will be paid at maturity by a tax on all the property of the city.

These sinking fund securities have been quoted by all the Mayors and City Auditors for the past sixteen years as part of our assets. The inhabitants of all the territory annexed, since the union with Ohio City, consented to become incorporated with the understanding that these assets were to be applied to the payment of our general bonded debt. Our bonds have been sold for years in the eastern market at a premium, on the strength of these statements. When this is fully understood, I am convinced that nine-tenths of the property owners in the territory most interested, would concur in this opinion.

#### VIADUCT SINKING FUND.

That portion of the Supplemental Viaduct Act, passed April 6th, 1876, providing for the creation of a Sinking Fund to pay the principal of the Viaduct bonds at maturity was found to be defective, and on May 13th, 1878, an amendatory act was passed curing these defects, and providing for the levy and collection of an annual tax for this purpose, "not exceeding two mills upon the general tax duplicate." The tax levied the past year in pursuance of this act was 700-1000 mills, and the proceeds were \$49,238.03.

This method of paying for municipal indebtedness is so light that when extended over many years it is scarcely perceptible to tax payers. But an annual levy equal to that of last year, will not be sufficient to meet these obligations at maturity; and therefore I recommend such increase as is indicated in my last annual message. A recent ordinance introduced by Mr. A. K. Spencer and passed by your Honorable Body, places this fund in the hands of the present Sinking Fund Commissioners. The past record of these gentlemen proves the wisdom of the measure.

#### PUBLIC IMPROVEMENTS.

There are now no extensive improvements, either in progress or under contract, and so long as the Burns Law remains in force as it is now, none can be begun until the money to pay for the same is in the City Treasury. Detailed accounts of all public works prosecuted during the year are to be found in the annual reports of the Board of Improvements, and City Civil Engineer. From the latter report I extract the following statement of the cost and character of the work for 1878:

Cost of work on Viaduct			\$444,894	77
Cost of work on Canal and Lock :			1,873	13
Cost of Improving Streets			17,247	91
Cost of Building Sewers			13,557	90
Cost of Dredging Cuyahoga River			8,249	86
Total		_	<b>\$</b> 489.379	 77

The cost of the Viaduct to date is about \$2,125,000, and we are assured by the Engineer, that when completed, the entire cost will not exceed the estimate of \$2,200,000 made when the last appropriation was obtained for this structure.

With regard to the lawsuit instituted a short time since against the city, by Mr. Charles Ensign, Executor of E. W. Ensign, contractor for the mason work of the Viaduct, a statement of the facts pertaining thereto is found in the communication of Mr. B. F. Morse, City Civil Engineer, recently submitted to your Honorable Body, from which it appears that the claims of the plaintiff are wholly without foundation.

There is probably no official in the City Government upon whom rests greater responsibility than the City Civil Engineer; as he has the supervision of all public improvements. It affords me pleasure to say that Mr. Morse has proved himself to be "the right man in the right place." Justice however, requires me to add that Mr. Morse had the sagacity to call to his aid competent assistants in the persons of Messrs. Rawson, Walters and others.

#### STREET DEPARTMENT.

There has been a decided change for the better in this department during the last two years.

With no perceptible diminution in efficiency, its expenditures have been cut down from something over \$105,000 for

eleven months in 1876, to \$47,234.49 for the entire year, 1878.

The department has been operated during the past fifteen months under what is known as the "Contract System," by which the work of cleaning the streets, avenues, alleys, market-spaces and catch-basins is let to the lowest bidder.

This new method seems to have no defects which cannot be cured by experience. It is certainly preferable to the old system, as the results show it is much more economical and equally effective.

The election of Mr. Jacob Bittel to this responsible position for four terms, is abundant proof of the confidence the people of Cleveland reposed in him as a public officer.

### LAW DEPARTMENT.

The Annual Report of the City Solicitor shows that there were pending in the various courts on the first day of January, 1879, 103 cases seeking to restrain the collection of special assessments amounting to \$1,500,000. A large number of these cases have already been passed upon by the Court of Common Pleas or District Court, and decided against the city, restraining the collection of taxes, amounting as per the Auditor's report to the sum of \$775,798.95. These injunctions will be permanent, unless dissolved by the Supreme Court.

The taxpayers of Cleveland should understand that the taxes which the city seeks to collect in these litigated cases were levied and assessed to pay for the opening of Payne and Wilson Avenues, Bond, Seneca, Orange, Sheriff and Slater Streets, and for the paving of Broadway. Kinsman and other streets, all of which improvements many of the property owners specially benefited pertinaciously "lobbied" through the Council and Board of Improvements.

The city loaned her credit, or in other words, issued her bonds to pay for these improvements, trusting to the subsequent levy and collection of a tax on the property specially benefited for re-imbursement. To further lighten the burden of the taxpayers thus accommodated, the assessments were made in installments running from one to five The city acted in good faith, and these special taxes thus became in equity and justice a lien on the property specially benefited. But after securing these improvements at the expense of the city, by the most urgent solicitation, they now seek by legal technicalities to shift the burden of the debt on the shoulders of innocent parties who are in no wise benefited thereby. Every injunction suit pending in the courts is only an effort by the parties interested to transfer the lien of these assessments from their own property to that of all the taxpayers within the corporate limits of the city. If they succeed and these injunctions should be made permanent, the cottages of the poor, even in the most remote portions of the city, will be taxed to pay for the opening of Payne Avenue and the paving of Kinsman, Broadway and other streets; and the rich land owners, whose property is specially benefited, will reap the profit in the enhanced value of their land, and the reduction of their taxes at the expense of those who earn their bread by the sweat of toil.

To say nothing of the legal questions involved, if there is any moral logic which will prove that laboring men, owning cottages miles away from the site of the improvements, should help pay for the same, it must be under some new code framed in the interests of municipal taxpayers, who seek to improve their own property at the expense of others.

The constant care and labor required in the preparation and trial of these cases, together with the multitude of other suits which are brought against the city and the decision of questions of law almost daily arising in the administration of municipal affairs rank the Law Department as one of the most important and responsible in the City Government.

In taking leave of this department it is but justice to say that Solicitor Heisley and his able assistants, Messrs. Weh and Wallace, although differing with me in politics, have uniformly treated me with the utmost kindness and in all their decisions of questions of law have never been swerved by partisan bias.

#### POLICE AND HEALTH DEPARTMENTS.

The very best evidence of the economical management of these departments, and the efficiency of the officers and men composing the force, including the Detective Service, are to be found in the facts and figures contained in the annual report of the Secretary of the Board of Police Commissioners.

From this it is shown that the cost of these departments for 1878 was \$157,548.71, leaving a balance of \$13,061.65 to carry over to 1879. This is a decrease in the expenditure for 1878 of \$6,016.73 from 1877; \$11.127.14 from 1876, and \$30,351.35 from 1875.

The increased efficiency of the regular force, notwithstanding this reduction, is shown by the following facts, to wit:

The amount of property stolen, estimated according to its value, was less than in any year since 1873; and the amount recovered, being  $80_{100}^{33}$  per cent. of the valuation, is greater than in any other year during that time.

The number of arrests made during the year was 7,151; the number sent to the Work House 1,005; and the amount of fines and costs collected \$19,448.11.

The effectiveness of the force will be better appreciated when it is understood that the number of men to the square mile in New York is 111; Philadelphia, 19; Chicago, 13; Brooklyn, 29; St. Louis, 19; Boston, 45; Baltimore, 39; New Orleans, 21; Washington, 9, and Cleveland, 5.

If anything further is required to show the superior excellence of the Police force of Cleveland, it is only necessary to state that the cost per capita of population in New York is \$3.27; Philadelphia, \$1.74; Chicago, \$1.07; Brooklyn, \$1.60; St. Louis, \$1.11; Boston, \$2.17; Baltimore, \$1.90; New Orleans, \$2.97; Washington, \$2.70; Cleveland, \$1.00; which is less than any other city in the Union.

So far as the Health Department is concerned, the following comparative tables for the past six years, furnished me by Secretary Bailey, speak for themselves:

COST OF HEALTH DEPARTMENT FOR THE PAST SIX YEARS.

TOTAL.				AMOUNT.					YEAR.
IOIAL.									1873
<b>\$</b> 48,452 72				23,416 14)	٠	•	•	•	
Ψ10,102 ·2	•	•	•	25,036 58 (					1874
05 717 40				9,549 38)					1875
35,717 43	•	٠	•	16,168 05 i					1876
00 500 00				(4.106 11)					1877
26,520 29	•	•	•	12.414 18 v			_		1878

Decrease in expenses of running this department for the last two years over the two years preceding, \$9,197.14; decrease in 1878 over 1877, \$1,691.93.

	DEA	HT	$\mathbf{R}^{A}$	TE	PE	3	1,00	0	FOR	TF	ſΕ	PA	ST	8IX	YE	ARS.	RATE.
YEAR							•										RATE.
1873	•				.•												19.20
1874																•.	16.07
1875									•								18.28
1876																	19.90
1877																	17.91
1878																	16.72

It will be seen that last year the rate was lower than in any year during the six, except in 1874, when it cost more than double the amount expended last year to keep the City in a good sanitary condition.

#### FIRE DEPARTMENT.

The Fire Department continues to be managed with ability and economy. The operating expenses for the year were \$144,034.56, being less than for any year since 1873, taking into consideration the increased number of engine houses and apparatus. The number of alarms responded to were 247; the loss of property amounted to \$207,836.95, more than one-half of which was occasioned by two fires, wherein the buildings and contents consumed or destroyed were of a very inflammable nature. Aside from these two fires, from which the losses were \$87,200 and \$29,180, respectively, the average loss per fire was \$373.30.

This Department has received and merits great praise for its efficiency.

### WATER WORKS.

The Annual Reports of the Trustees, Superintendent and Secretary of Water Works, are very complete and satisfactory. They show the present very prosperous condition of this Department and give detailed statements of its financial transactions during the past year. It appears from the report of the Secretary, that the receipts for water, including permits, during 1878 amounted to \$160,125.70, and the operating expenses, \$53,028.27, leaving a surplus of earnings over the running expenses, of \$107,097.43. The entire re-

ceipts and disbursements of the Department for 1878 may be stated briefly as follows, to wit:
Cash on hand January 1st, 1878:
For Water, including Permits 160,125 70
For Street Sprinkling and all other sources 5,993 58
Total Receipts for the year \$221,681 62
Deduct from this Operating Expenses 53,028 27
Leaving a Total Surplus Fund of \$168,653 35
Out of this fund were paid during the year for perma-
nent Improvements, etc., the following, to wit:
For Pipe Extension
For Lake Crib Superstructure 43,153 21
For New Boilers and setting same 18,838 37
For Water Meters
For Final payment on Engine and Interest . 10,163 37
For Payment of Interest on Water Works
Bonds
Total
Cash on hand January 1st, 1879 32,511 26
<b>\$168,653</b> 35

It will be observed that notwithstanding the extraordinary out-lay required during 1878, to repair the damages done to the Lake Crib by the severe storms of July and September last, the receipts of the Department were adequate to meet all demands for protection in this emergency, pay \$35,000 of interest on the Water Works Bonds, and still show a comfortable balance at the end of the year of \$32,511.26. This certainly speaks well for the faithful and economical management of the Department. According to the Secretary's estimate the receipts for water for 1879

will amount to \$165,000 and the ordinary expenses and repairs will not exceed \$55,000.

If this is correct, the surplus earnings at the end of the current year will amount to \$110,000; which, with the \$32,511.26 cash on hand at the beginning of the year, will aggregate the sum of \$142,511.26, every dollar of which, not actually needed for the permanent protection of the Lake Crib and for pipe extension, should be applied in payment of the interest annually maturing on the Water Works Bonds.

During the year there was paid from the Sinking Fund \$425,000 of matured Water Works Bonds, leaving the whole amount now outstanding at \$1,300,000. Of this sum all that mature on or before January 1st, 1884, aggregating \$500,000, will be paid out of the Sinking Fund as now provided for by law; but no provision has been made for the payment of Water Works Bonds maturing after that date, amounting to \$800,000, and coming due as follows: \$400,-000 May 1st, 1892; \$200,000 May 1st, 1893, and \$200,000 October 1st, 1895. If the present successful management should continue, there is no question but that this Department will be able, not only to take care of the principal and interest of all Water Works Bonds maturing after January 1st, 1884, and in the meantime, contribute largely towards paying the interest on this class of bonds maturing prior to that date, besides furnishing water privileges ample for the accommodation of all our citizens and the protection of public and private property.

The Board of Trustees of Water Works, in their report relating to the disaster which befell the Lake Crib during the past year, states:

"We are in question, as yet, whether fault can be attached to any one on account of damages accruing to this structure at the time of the storm referred to, but have the matter fully under advisement and trust at an early day to be able to report to your Honorable Body, a full statement of all the facts and conclusions arrived at. This we propose to do as early as the season will permit of a thorough examination by experts."

#### INFIRMARY DEPARTMENT.

According to the report of the Infirmary Department	
the number of applicants relieved during 1877	
was	325
Number of applicants relieved during 1878 was 1,8	94
Showing a decrease of	31

This falling off in the number securing relief may be accounted for in several ways. There may have been more relief granted by outside persons and associations, or the Infirmary Department may have been more searching in its investigations, or the applicants may have been unwilling to comply with the rules of the institution, which require able bodied persons to do an amount of work proportionate to the groceries or fuel furnished them. This last is probably the most potent reason, for we are informed by the report of Jacob Bluim, Clerk of the Infirmary Board, that "the total number of orders issued for work to the applicants for out-door relief was 835. The orders called for one, two or three days work. Of this number 282 were returned signed by the Steward of the Infirmary, which certified that the applicants had worked as required by the order."

Thus it will be seen that 552 of the applicants for out-door relief—nearly two-thirds of the whole number—refused to accept relief on the terms proposed. As a general rule, these are the professional mendicants who are supported in idleness by the open-handed, but ill-directed charity of the generous public.

To the present Board of Directors we are indebted for this work policy, which, as suggested in their report, "furnishes an infallible method of discriminating between the worthy and unworthy." It has decided advantages over the old form. It is more economical, as it makes imposition difficult, and by allowing the recipient to render an equivalent for what he receives, it does not require that sacrifice of dignity and self-respect which results from all systems of indiscriminate alms-giving. The Board of Directors in their report ask that they may be allowed to utilize the now unoccupied apartments in the building, in which the Infirmary offices are located, by arranging them for the manufacture of oakum, and the employment of those applicants who are physically unable to endure hard labor. trust the proposition will meet your approval and that you will render them such assistance as may be required to carry out their plans in this particular.

I also endorse their recommendation for the passage of a law making it a penal offence to obtain goods or money from the Infirmary by false pretences, and request your Honorable Body to aid them in obtaining the necessary legislation to this end.

The Clerk of the Board of Infirmary Directors has kindly furnished me with the following comparative statement of the cost of conducting this Department for the past four years.

Year.	Infirmary.	Out Door Relief.	Improvements	Bonded Debt.	Total.
1875 1876	\$16,129 15 16,755 00	\$60,127 06 67,045 88	\$46,112 40	\$ 5,700 00 5,350 00 Paid overdr'n	\$81,256 21 135,263 28
1877 1878	15,460 05 16,514 37	39,113 98 32,356 37	28,887 60 1,491 45	in 1876. 23,430 81	104,892 44 50,688 24

Thus it will be seen that the expenditures for 1878 were reduced to less than one-half of those for 1876 and 1877, and about \$21,000 less than those of 1875. This accounts for the handsome balance of \$19,630.83 standing to its credit at the end of the year, and indicates careful and judicious management.

# WORKHOUSE AND HOUSE OF REFUGE AND CORRECTION.

The financial and statistical exhibits contained in the Annual Reports of the Directors and Superintendent of the Workhouse and House of Correction, are entitled to more than a passing notice. They show by facts and figures that these institutions have been managed with the same prudence and economy during 1878 as in former years, and with better results. The high character and well known business qualifications of the gentlemen composing the Board of Directors are the surest guaranty that so long as these important trusts are committed to their care they will be administered with ability and fidelity.

They devote a large portion of their time without compensation for the success and advancement of the interests in their charge; and they certainly deserve and will receive the thanks and hearty approval of all good citizens. Mr. W. D. Patterson was chosen Superintendent, and his estimable wife, Matron, on account of their long experience in the training and care of the unfortunate, and the correction of criminals. Their duties are arduous, and often difficult to perform; but their rare good judgment, patience and business tact have been equal to every emergency, and contributed largely to place the Cleveland Workhouse and House of Refuge in the front rank of penal and reformatory institutions.

The number of convicts remaining in the Workhouse
January 1st, 1878, was
Whole number committed during the year 975
Total
Discharged during 1878
Number remaining January 1st, 1879 271
The average number supported during the year 1878 was
261, being forty less than the average for 1877. The actual
cost to the city for maintaining both Departments for the
year 1878, exclusive of improvements, was \$3,892.96, as
against \$5,846.71 for 1877, being less for 1878 than in 1877
by \$1,953.75.
The Refuge Department during 1878 was not only self-
supporting, but contributed in net gains \$204.46 towards
the support of the Workhouse branch. The following table
prepared by Superintendent Patterson, shows the actual
cost to the city for the maintenance of the Workhouse and
House of Refuge, exclusive of permanent improvements,
from the date of their establishment to January 1st, 1879:
1871, Net Cost
1872, "
1873, "
1874, "
·
1010,
•
1011,
1010,
There is one matter of vital concern to the welfare of
these institutions, which, it occurs to me, deserves special

The Board of Directors, in their Annual Reports for 1875 and 1876, recommended the purchase of grounds apart

mention.

from the Workhouse, and the erection of buildings thereon for the exclusive use of the children in the House of Refuge. The present Report asks for the erection of an additional building on the Workhouse grounds, for the accommodation of the girls in the Refuge Department. They have been moved to make this suggestion, no doubt, from motives of economy; but it seems to me that the reasons which can be offered in support of the former recommendations are so numerous and forcible that they cannot but commend themselves to every candid mind.

All those confined in the House of Refuge are children under sixteen years of age. Some of them are there for incorrigible conduct; but a large proportion are those who have been removed from wretched and polluted homes on account of the degradation and moral depravity of their parents, and who are charged with no crime. Our duty does not end when we have seen them fed and clothed and protected from the storm, but demands that we do what we can to help them lead good and useful lives. The tender buds of virtue and truthfulness which cluster around the heart of a child will bloom like flowers when nurtured and surrounded by the influences of the good, but may wither and decay from contact with the low and vicious. Nothing but evil can result from thus bringing these innocent boys and girls into such close proximity to criminals.

Aside from this direct mischief, there is another, equally unfortunate and far reaching in its consequences. I refer to the stigma of having spent their youth in a workhouse, which will rest upon and embarrass these children in after life. We will certainly fall short of the obligations resting upon us if we longer persist in sending them out into the world with this odium resting upon them. When they grow up to manhood and womanhood they may display the highest order of intellect and may be actuated by the noblest

and most generous impulses, yet the dark page in their history which tells of their connection with a workhouse, will tend to deprive them of the esteem of their fellows and in many instances will prove an obstacle in the way of their preferment. We should send them out from our care with no taint upon them and no check to their ambition. Give them a suburban home removed from the contaminating influence of criminals, and from the din and smoke of the city. Erect buildings substantial and commodious, yet free from useless ornamentation. Let these buildings be surrounded by a few broad acres, where these wards of the city can grow up in purity as well as in strength and stature; and where, in place of the monotony of prison life, they can at times enjoy the chief delights of childhood-freedom, sunlight and pure air. Give them a good discipline of mind and morals, and it cannot but prove a great aid to their advancement, and a consequent gain to society.

The present seems a very opportune time to provide for this much needed improvement. It is conceded that real estate, building material and mechanical labor have now reached their lowest price. Your Honorable Body at one time took action in this direction, but under the operation of the Burns law nothing could be accomplished, because there were no funds for that purpose in the treasury. This plan having been twice suggested by the Board of Workhouse Directors and endorsed by my predecessor, Mayor Payne, I would respectfully recommend that immediate steps be taken by the Council to secure the legislation necessary for its execution.

#### THE PUBLIC SCHOOLS.

By the courtesy of Dr. D. B. Smith, President of the Board of Education, I have been furnished the following school statistics for the year 1878:

Total enumeration within school age				49,118
Total number in public schools				22,104
Total number in church schools		٠.		8,944
Total number in private schools				1,437

From which it appears that while there are in all the schools of the city 32,485 children, 16,633 do not attend any school. Of this large army of children who do not avail themselves of educational advantages, very many may be seen daily in the streets of the city learning vice and contracting evil habits. The best condition of society, religious, social and civil, cannot be attained unless the mental and moral training afforded by the school-room reaches every child at the proper age. It is therefore the duty of all good citizens to unite their influence to secure this training to every one. In a government "of the people," for the people, and by the people," it is indispensable that the youth of the land pass through a preparatory course of instruction to fit them for citizenship. The fact that 16,-633 of the youth of Cleveland are not attending either public, church or private schools, is proof that either the compulsory statutes of Ohio are not sufficiently explicit in their requirements, or that they are not enforced.

The fiscal transactions of the public schools of the city for the year 1878 are represented by the following figures:

#### RECEIPTS.

Local tax levy					\$318,779	31		
State apportionment					68,928	62		
All other sources .					6,725	33		
Total receipts .							\$394,433	<b>2</b> 6
DISBURSEMENTS.								
Salaries of all employ	es				\$272,037	52		
Land and buildings					92,301	70		
All other expenditure	S				42,116	68		
Total disburseme	nts						-\$406,455	90
Disbursements in exce	<b>'88</b>	of	rec	ceip	ts	, .	12,022	64

It will be seen that the Board of Education did not live within its income the past year. This is a condition of things that should not be permitted in any municipal department, except in case of great emergency. I am not informed of the necessity of this excess in expenditure, but from the large outlay in sites and buildings it may be inferred that the demand for more and better room was extraordinary. The

payments on account of the new high school building doubt-

less added to this item of expense.

It is not necessary for me to repeat what I have before said, that I have great confidence in our public schools. But we must not rest satisfied with the conviction that we have reached the best attainable results in a system of education. Every change that will enable us to reach a higher standard of excellence should be promptly made. We cannot afford, for the sake of our children, to let our schools deteriorate; but at the same time we must not forget that economical management in conducting all public affairs is indispensable to the best results.

#### NEWSBOYS AND BOOTBLACKS.

I desire to say a few words in behalf of the newsboys and bootblacks of our city, and to suggest that something be done for the regulation of these trades.

The boys thus employed are from eight to sixteen years of age; they number from four to five hundred. The rough experience of the street is doubtless in many respects an excellent school. It tends to develop energy, tact, and selfreliance, which are the prime essentials of success, as is proved by the records of many of our most eminent men, who began active life in these humble callings. It is to be feared, however, that these benefits are more than offset in many cases by the corrupting influence of bad associates. It is a manifest duty on our part to throw around them every safeguard. and put before them every incentive to good behavior. this end in view, I would recommend the passage of an ordinance similar to the one now in force in the city of Detroit. This ordinance is to be found on page 718 of the Journal of the Council of that city for 1877, now on file in our Municipal Library.

It provides that newsboys and bootblacks cannot ply their trade without getting permits from the Mayor, and obtaining a metal badge, duly numbered. The Mayor may revoke the permit at any time if the party is guilty of using any vile language, or of any disorderly or indecent conduct.

These permits and badges are looked upon as certificates of good character; and on this account the boys take just pride in being thought worthy to retain them, and would feel deeply the disgrace of being compelled to surrender them.

#### MILITARY ORGANIZATIONS.

The military force of the city consists of the Fifteenth Regiment Infantry O. N. G., Colonel A. T. Brinsmade commanding; the First Light Artillery O. N. G., Captain Louis Smithnight commanding; the Cleveland Grays, Captain John N. Frazee commanding: and the Gatling Gun Battery, Captain William Goodspeed commanding.

These organizations without exception are in fine condition, are well officered, and are very proficient in military discipline and tactics.

I have no hesitation in saying that the military organizations of the city are capable of affording ample protection to the lives and property of our citizens in case of danger. Experience has demonstrated that an efficient military force is a necessity in all cities; and should the services of these organizations ever be required they will be prompt to respond. I trust they will continue to have the confidence and co-operation of our citizens, for they are certainly worthy of it.

#### EXECUTIVE DEPARTMENT.

It is made the duty of the Mayor by Section 4, Chapter 5, Division 4, of the Municipal Code, to "supervise the conduct of all the officers of the corporation, inquire into and examine the grounds of all reasonable complaints against any of them, and cause all their violations and neglect of duty to be promptly punished or reported to the proper authority for correction."

The duty thus imposed upon the Mayor cannot be faithfully performed unless he is placed in a position where he has a fair opportunity to know whether the funds of the corporation are squandered or misappropriated by the officers entrusted with their disbursement. This city has four muni-

cipal boards, the members of which are all elected by the people, (except in the single instance of one member of the Board of Fire Commissioners), which have absolute control of the funds belonging to their respective departments, and in no one of them has the Mayor a vote.

The names of these boards and the amounts of money severally disbursed by them during the year 1878 are as follows:

NAME OF BOARD.  Board of Education	disbursements. \$406,455-90
Board of Fire Commissioners	
Board of Trustees of Water Works	189,170 36
Board of Infirmary Directors	63,985 17
Total	8819.581 87

That the Mayor should be held responsible for the conduct of officers who have the handling yearly of \$819.581.87, and yet have no voice in their deliberations, and no means of knowing, except by their books and annual reports, whether the bills approved by them are just or unjust, is, to say the least, contrary to common sense. I would therefore suggest that your Honorable Body apply to the Legislature for such change in the law as will require the Mayor to be ex-officio President of all these Boards, with power to vote. I have not mentioned the Workhouse Board, or the Board of Park Commissioners, for the reason that their members are appointed by the Mayor, and it is a question of doubtful propriety whether he should preside over a Board of his own creation.

Although not coming properly under this head, there is another defect in our municipal system to which I beg leave to call your attention.

The Board of Education, under existing laws, is a corporation wholly independent of the city. It has power to determine and certify to the County Auditor estimates of taxes for school purposes for the ensuing year, even to the maximum limit allowed by law, and neither the City Council nor the County Auditor has any power to revise or abridge the same.

The law says the County Auditor shall place the amount so estimated on the tax duplicate for collection. payers of Cleveland may understand the full scope of the autocratic power vested in this Board, it is only necessary to state that under the Act of May 1st, 1873, it had power to certify to the County Auditor, yearly, tax estimates for school purposes, to the maximum limit of seven mills on the entire taxable property of the corporation. This on a valuation of \$71,000,000 would amount to nearly one-half million dollars yearly: It is due, however, to the Board of Education, to say that the highest estimate ever made by it was in 1875, when it fixed the levy at five mills. Under the law passed April 8th, 1878, the maximum limit was reduced to four and The power vested in this Board does not. one-fourth mills. stop here; under section fifty-six of said law it has power to issue bonds to obtain or improve public school property, at a rate of interest not exceeding eight per cent, per annum, pavable semi-annually.

In this connection, the fact to which I desire to direct special attention is, that by the statute of 1873, the title to all the school property of the City of Cleveland is vested in this independent corporation. A careful estimate of the value of this property places it at one and one-half million dollars, and this the Board has unrestricted power to change or dispose of, by the simple adoption of a resolution. No other real estate belonging to the city can be sold or leased without a recommendation from the proper Board, and the formality of an ordinance from the City Council, fixing the price and terms:

but the Board of Education can strike off to the highest bidder any school-house and site in the city, and there is no power in any branch of the Municipal Government to interpose effective opposition. I am convinced that absolute power over matters of so grave concern to the public, should be exercised only with the sanction and concurrence of the executive and legislative branches of the City Government. The Legislature of the State should be at once requested to amend the law which confers and regulates the powers of this Board.

In making these suggestions I wish it distinctly understood that it is not for the purpose of casting any reflections on the present members of the Board of Education. They are gentlemen of high character, and have no doubt performed their duties with a conscientious regard for the promotion of the interests committed to their care. But a power so absolute is liable to abuse, and in the scramble for municipal offices it may happen in the future that men will be elected to this position who pay little or no taxes and yet have the power to certify an estimate for school purposes, which will be oppressive to those who contribute to the public burdens. There is one other Board subject to the same criticism, and that is the Board of Police Commissioners. Section 20, volume 73, page 55, of the Police Commissioners' Act requires that the vearly estimates made by this Board and certified to the City Auditor, shall be presented by him to the Council, and the language of the law is imperative that the Council shall provide for such estimate. I recommend that the law be so changed that the City Council shall have ultimate power to pass upon and determine the amount of taxes to be levied for the maintenance of each and every department of the City Government.

#### CITY CLERK'S DEPARTMENT.

From the Clerk's annual report I extract the following table, which shows a considerable reduction in the cost of printing, advertising, and stationery supplies for the past four years, and that in 1878 the expenditure for these items was less by over fifteen thousand dollars than in 1875:

	YEAR.															1	Printing Station	g and ery.	Advertising.	Totals.	
1875						_						-	_			-,-	\$9,164	60	\$16,080 gr	\$25,245 51	
1876 1877																• ;	9,697	29	10,367 10 3.993.45	20,064 39 10,810 97	
1878																			3,366 15	9.432 77	

This is due to the system adopted in 1877 of advertising for proposals and letting out the work and furnishing of supplies by contract to the lowest bidder. I am informed by the City Clerk that this system has thus far given the most satisfactory results; that it required in 1878 an expenditure on account of the above items of \$6,955.64 less than the average annual expenditure for the four years above specified, and that the quality of the supplies furnished the city has been fully up to the requirements of the contract in every instance.

Under the management of Clerk Eckman and his two able assistants, Messrs. Vanek and Delamater, this department has been conducted in a manner which reflects great credit upon those officers. The manifold duties of the office have been performed by them with promptness, courtesy and ability; and I am pleased to be able to testify to their especial fitness for the positions they occupy.

#### DEPARTMENT AND OFFICERS.

There has been but one change among the heads of departments of the City Government during the past year. In April, 1878, Mr. Henry Ford was elected by the Council to the position of City Auditor, vice Thomas Jones, Jr.

Like his predecessor, Mr. Ford brought to this office uprightness of character and honesty of purpose, and his management thus far has proven his ability to satisfactorily perform the duties therein imposed.

#### CITY TREASURER.

The re-election of City Treasurer Everett to the position which he has held for ten years, is a deserved compliment to an honest and efficient public officer. Mr. Everett, by his financial ability and his personal efforts has contributed largely towards advancing the credit of our city, so that her bonds always command a premium in the Eastern market.

#### MAYOR'S CLERK.

During the first eighteen months of my administration, Mr. M. G. Watterson was Clerk of the Board of Improvements and of the Mayor. His election to the responsible position of County Treasurer necessitated his resignation of an office which he had held for twelve years. His long experience, his thorough knowledge of the details of every department of the City Government, and, above all, his unswerving fidelity and integrity in the discharge of his official duties, rendered his services to the city beyond value.

Mr. W. E. Sherwood, who was elected to take his place, has shown marked ability in the performance of the complex duties connected with his position, and it affords me pleasure to commend him as a competent and faithful public servant.

It affords me pleasure also to state that during my administration I have found the officers in the several departments

uniformly honest, active, and competent; and I am free to say that I do not believe any large city in the Union has less ground to suspect the uprightness and capability of her officials than the City of Cleveland.

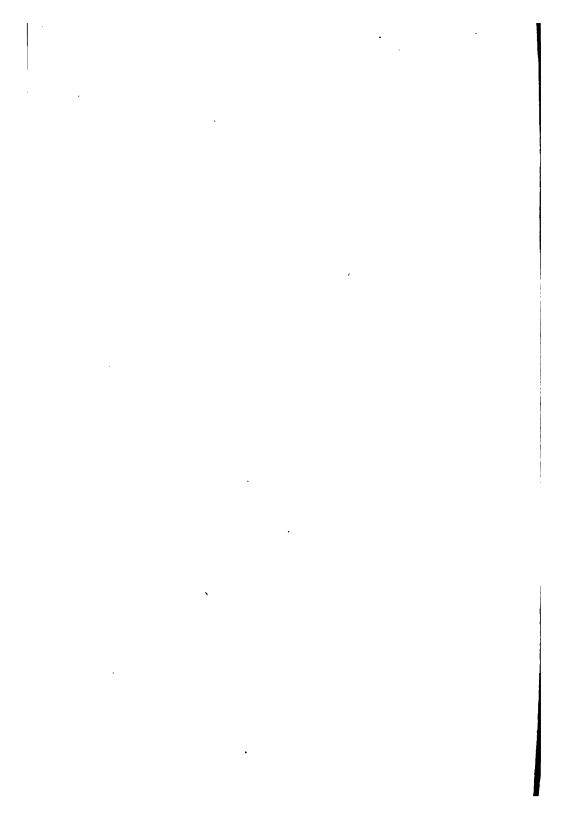
#### CONCLUSION.

In retiring from the responsible position which I have held for two years by the suffrage of the people, I desire to thank your Honorable Body, without distinction of party, for the kind treatment which I have received at your hands, and to congratulate you on the election of a successor whose long experience in municipal affairs, and whose honesty and fidelity eminently fit him for the position.

I surrender to him to-night the cares and responsibilities of the office, knowing that "economy and retrenchment" will be the watchwords of his administration, and that no personal consideration will ever swerve him from the path of duty.

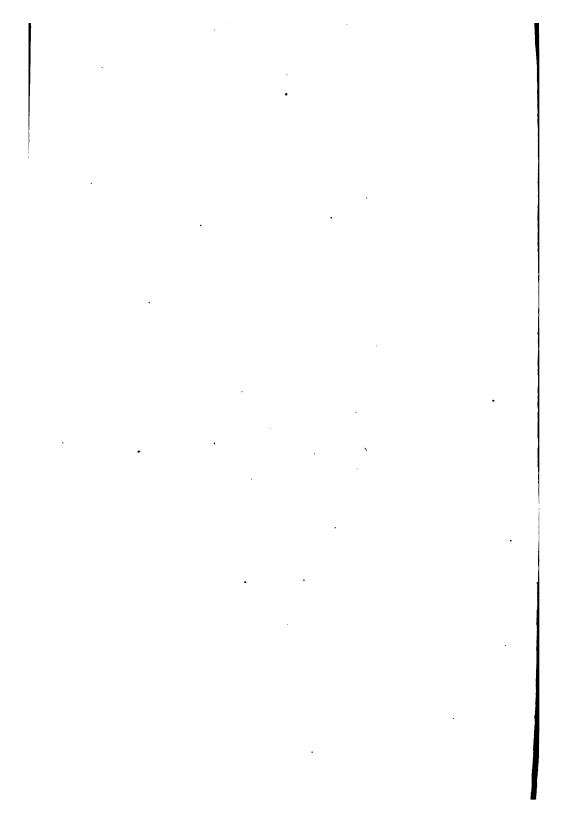
Respectfully submitted.

W. G. ROSE, Mayor.



# INAUGURAL ADDRESS

Hon. R. R. Herrick, Mayor.



# INAUGURAL ADDRESS.

## Gentlemen of the City Council:

As Executive Officer, custom requires me to address you at this reorganization of the Municipal Government. My predecessor has given a plain and complete statement of the condition of each Department of the City Government, and I wish to express what I believe to be the universal sentiment, that a large degree of caution and care has been exercised by him and the City Council. Economy in the various Departments of the City Government has resulted in a decrease in taxes, notwithstanding the large increase of interest on Bonds issued for Viaduct purposes.

Too much cannot be said in praise of the outgoing administration for having turned the tide. Heretofore it has been the rule to expend more than the revenues and so year by year increase our rate of taxation, and issue bonds to make up deficiencies. During the past year not one dollar in bonds has been issued for any purpose (except Viaduct) which can in any way be chargeable to the management of the term just closed. My experience in municipal affairs during years which have passed has been a source of instruction to me, and without casting any reflections on any official whose term of office has closed, I desire as concisely as possible, not in a dictatorial way, to look over the years that have passed

with you, with a view to our mutual benefit and profit to our constituents. Experience is the best educator, and he who learns from its teachings learns wisely. In order to secure an efficient administration of the city there must be unity in our Nothing works greater evil than wrangling and diswork. Political antagonisms should as far as possible be cord. avoided, as our work is the protection of property and per-We are the representatives of one of the most populous cities in the West, comprising nearly every nationality. each having their own peculiar ideas, which under our form of government are alike entitled to protection. Our people are law-abiding and peaceable. In point of intelligence they are not excelled. Our public schools and school accommodations are not surpassed by any city. As regards location our city is the natural receptacle of the minerals of our own State and the ores of the lake region, here to be distributed or reproduced in many varieties of manufactured goods. Twenty million dollars of capital are invested in establishments which consume twenty-five million dollars in material In brief we represent one of the most intelligent, wealthy and industrious cities in the United States.

The people have given into your hands the power to levy and collect taxes and expend the money when raised. Taxation is burdensome and to a certain degree oppressive, and especially so at this time. In the exercise of this great power we must not forget that we are the servants, not the masters. Let us not flatter ourselves that having been made the guardians of these great interests a jealous people will not hold us to strict account. After having received the congratulations of our nearest friends for the distinction conferred upon us, they, as well as all others, who have contributed to pay the expenses of our Municipal Government will scrutinize our work, and with perfect right criticise our acts.

The rapid growth of this city during the past fifteen years,

has called for large expenditures for improvements in order to keep pace with the increase of population. another city in the world with the same population having so many miles of streets of unusual width-being 369 7-10 miles of streets and 54 6-10 miles of alleys; total streets and alleys of 424 3-10 miles. To this expense must be added the cost for sewerage, water, gas, etc. These improvements were made at a time of great inflation, at a much greater cost than would be necessary at the present time; and having been made mostly on credit we are compelled to pay more than A large portion of these improvements their present value. could not be avoided, as they were a necessity. secured our population and our wealth. In this light we are paid in great degree for the excessive cost. It now remains to meet our obligations with as little interference with our business interests as possible. Nothing so effectually strangles manufacturing and all business enterprises as a high rate of taxation.

We have just passed an era of speculation in real estate during which prices fearfully fabulous were current, and which has resulted in a collapse, more especially true with land remote from the business center. The day of reckoning came and foreclosures were of daily occurrence. The city has to a great extent been a partner in these speculations by lending its credit for opening new streets and improving them. issuing its bonds therefor to be paid by special assessment on property supposed to be benefited. In many cases the property has been unable to pay and we find a great part of the taxable property of the city under bonds to pay for improvements not needed for many years to come. The serious effect of this has made the assessments on unproductive property, together with the decline in value, crushing, and in some cases the taxes imposed have amounted to absolute confisca-The effect on otherwise available property is to pre-

vent or hinder improvements on the property, compelling the owner to practice inconvenient economy to the detriment of The excellent credit of the city has to a great extent been the cause of much embarrassment. The facility of raising money without alarming the taxpayer by demands to pay as you go has helped fix upon us a large bonded debt. and we are now borrowing by issue of new bonds to meet the payment of those maturing. This kind of financiering, if persisted in, will lead to but one end—the financial destruction of The same rules which apply to individuals apply You will pardon me for calling your attention to a to cities. very common practice in legislative bodies like this—each member represents a local district; he is expected to look after the interests of his particular ward or constituency: he has some local project which he desires to accomplish; alone he may not be able to bring about his particular scheme, but by uniting with other members having like projects, many unimportant measures are adopted which, in the aggregate, amount to large expenditures. Municipal corporations should come to a halt in extravagant expenditures, at least till the business interests of the country revive, and all our resources are engaged, and the large amount of surplus labor finds employment. It is unquestionably true the tide has already turned, but a sudden plunge into prosperity cannot be expected. Let us, as far as possible, lighten the load and help make the ascent as rapid as possible. Economize in your appropriations and postpone all new projects that will involve any considerable outlay until we can recover from our commercial and industrial depression.

Immediate steps should be taken by your Honorable Body in ascertaining what rights the State has in the Canal Lands, which, by agreement are to be transferred to the city. Competent persons should be empowered to procure all titles and conveyances now to be found in the State archives, with a

view of having such conveyances placed upon the records of this county. The City Civil Engineer should be instructed to make a plot of all parcels of land conveyed by the State, to be kept in his office for the benefit of all interested parties.

I feel myself exceedingly fortunate in assuming the office of Mayor at what I believe to be the opening of a new era for the city, in which she is destined to attain a degree of growth, wealth and prosperity far exceeding the expectations hitherto entertained by her most sanguine citizens. The cloud that has hung for several years over our country has rolled away, and the morning is bright with promise. In the evil days that are past no industry has suffered more than those connected with coal and iron; the fuel and fingers of all manufacturing. As these were the first to be paralyzed by the panic, so will they be among the last to recover; but the time of suffering is over and vigorous business health is again ours.

We have the assurance that the Breakwater to which we have so long looked forward, will be pushed steadily to completion, and that when it is done, Cleveland will have advantages as a shipping point exceeding those of any other city on the whole chain of the Great Lakes. Even before we come into the full enjoyment of this costly improvement we know that the Valley Railroad will be completed to Canton, in an air line toward the great coal fields of Ohio, from which the whole world might be supplied with fuel for a century to come, and which are not less rich in indispensable materials for iron manufactures. Beyond the terminus of the Valley Road itself other roads are being pushed forward through the very veins of this mineral wealth toward the Ohio River, whose freight will seek the water carriage of the lakes by the most direct and available routes, and which the far-sighted energy of the people of Cleveland may be trusted to make tributary to her growth and prosperity.

With the Breakwater, giving her a harbor for shipping of every kind, and her railroads running from her wharves to the mines and furnace doors, the future growth and prosperity of Cleveland is as assured as has been that of Philadelphia and Pittsburgh from the same great sources—iron and coal.

In conclusion, I repeat that, holding these views of the nature of the new career on which our beloved city is about to enter after the long years of depression, it gives me great pleasure to have been intrusted by my fellow citizens with the important office upon the duties of which I now enter. But with this comes also a sense of responsibility which I shall endeavor to meet by promoting to the extent of my power all such works and enterprises as tend to benefit the trade and commerce of Cleveland.

Respectfully submitted,

R. R. HERRICK, Mayor.

OF THE DEPARTMENTS OF

# CITY GOVERNMENT

OF THE

CITY OF CLEVELAND,

FOR THE

YEAR ENDING DEC. 31, 1878.

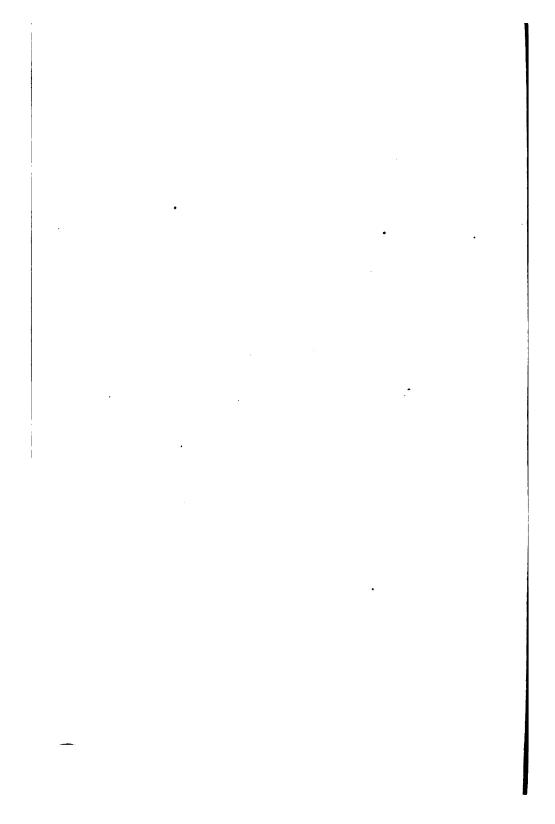
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OF THE

# Board of Park Commissioners

FOR THE

YEAR ENDING DEC. 31ST, 1878.



OF THE

# Board of Park Commissioners.

Dr. A. EVERETT, President.

J. H. SARGENT,

J. H. WADE.

W. H. ECKMAN, Secretary.

### To the Honorable City Council:

Gentlemen:—A statement of the receipts and expenditures on account of Public Parks, for the fiscal year ending December 31st, 1878 is herewith submitted.

### RECEIPTS.

Application of the second seco				
Balance to Credit of Fund, January 1st, 1878	\$12,745	38	•	
From the levy for the year	3,507	56		
From miscellaneous sources	15	00		
Total	i	'' 	\$10	3,267 94
	_	- '	-	

### EXPENDITURES.

Labor pay rolls for the year	\$4,284	05	
Trees, shrubs, &c	396	90	
Rent of tool houses	220	00	
Lighting Clinton Park	360	00	•
Sprinkling tax	191	94	
Resurfacing walks	178	75	
Building tool house on Lake View	454	78	
Secretary's salary	300	00	
Sundry current expenses	312	31	
Total			<b>\$</b> 6,678 73
Balance on hand January 1, 1879			\$9,589 21
	-		

By order of the Board of Commissioners,

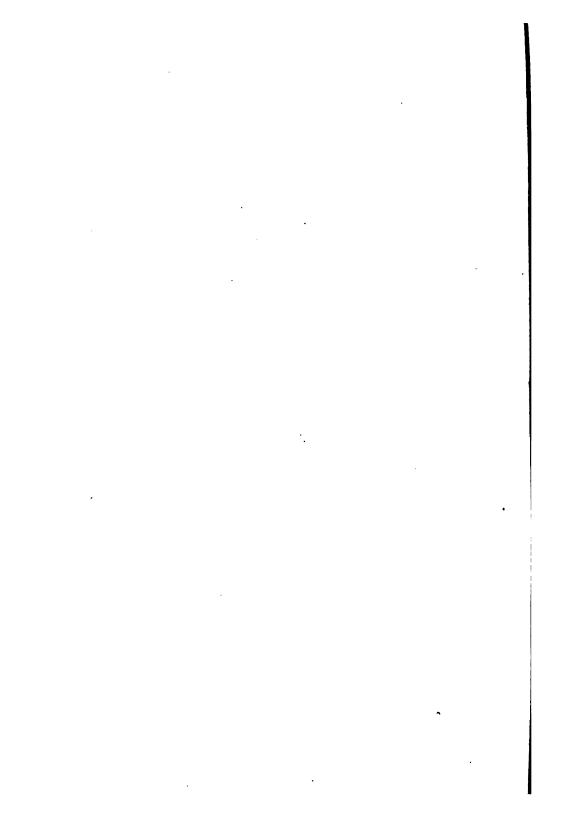
W. H. ECKMAN,
Secretary.

OF THE

# Board of Improvements

FOR THE

YEAR ENDING DEC. 31st, 1878.



OF THE

## BOARD OF IMPROVEMENTS.

FOR THE

YEAR ENDING DECEMBER 31, 1878.

### To the Honorable City Council:

GENTLEMEN:—The Board of Improvements herewith submits its annual report for the year ending December 31, 1878.

This report embraces accounts of all work and expenditures under its immediate control and not falling within the special jurisdiction of either the City Civil Engineer or Street Commissioner, who each submit separate reports for their respective departments.

It will be observed that the reports of each of these departments show a very great reduction over former years in the amount of their annual expenditures. The entire expenditure by the Board of Improvements for all purposes during 1878 was \$46,608.46, being \$9,876.22 less than in 1877, \$38,742.84 less than in 1876, and \$71,751.02 less than in 1875.

It has been the constant effort of this Board to conduct all matters under its control and management in the most economical manner possible consistent with the best interest of the city. How well it has succeeded the above statement of the savings over the three preceding years best shows.

No improvements of any account, either of a special or general character, have been begun during the year. The only work of any considerable importance prosecuted by the city was the Viaduct. This vast structure has at length been substantially completed and is now in use by the public. The entire cost thus far, according to the Report of the City Civil Engineer, is \$2,125,000.00. Some additional work is necessary in order to entirely complete it, but the whole cost will, we are assured, come within the estimate made at the time the Supplemental Viaduct Act was passed permitting further appropriation for its construction, namely \$2,200,000.00.

The character and cost of all improvements in progress during the year are fully set forth in the Engineer's Report, from which it will be seen that the entire cost of all improvements was \$486,433.63, of which \$444,894.77 were expended upon the Viaduct, leaving but \$41,538.85 as the expenditure for all other purposes.

As the public improvements have gradually been completed and the work under the supervision of the Engineer lessened, the cost of conducting his Department has been diminished in an equal degree, as is shown by the following table:

# Amount of Pay Rolls, including the Salaries of the Engineer and Viaduct Engineers.

														•	,							
1874																		,			\$23,859 8	I
1875			•							,											27,124 3	2
1876																			•		26,898 7	4
1877																					23,171 9	7
1878										,							,				14.678 8	4
1879	(2	ıs	a	t 1	pr	es	en	ıt	fi:	œ	1)										9,279 9	6

The Street Commissioner's Report also makes a highly favorable showing, and one very flattering to him as head of the Street Department.

It will be seen by comparison that the cost of the work in the Street Department was in 1877 more than 40 per cent., and in 1878 more than 50 per cent. less than in 1875 and 1876.

During the past year the streets, avenues, alleys, market

spaces and catch basins in the city have been cleaned by contract as provided by the law passed in 1876, and that system given a very thorough trial.

It has thus far given reasonable satisfaction. The streets, etc., of the city have been cleaned nearly if not quite as well as under the old system, and the cost does not exceed one-half as much as formerly. The Board is of the opinion that with each year improvements can be made in its efficiency so that eventually it will not only be the cheapest, but the best mode of cleaning the streets, etc., of the city. The expenditures authorized by the Board not included in the reports of the Engineer and Street Commissioner are given below:

### BRIDGES.

The pay of the principal Bridge Tenders on the river bridges was fixed at \$2.00 in January instead of \$2.50, changed in April Pay Roll from \$2.00 to \$2.25, and afterwards changed to \$2.50 per day. The following schedule shows the force on each bridge and the wages paid:

### CENTER STREET BRIDGE.

One Tender, paid
COLUMBUS STREET BRIDGE.
One Tender, paid
SENECA STREET BRIDGE.
One Tender, paid
LOWER CENTRAL WAY BRIDGE.
One Tender, paid
UPPER CENTRAL WAY BRIDGE.
One Tender, paid
MAIN STREET BRIDGE.
One Tender, paid       \$2.50 per day.         One Helper, paid       1.75 per day.         Two Helpers, each paid       1.50 per day,

### CITY DOCUMENTS.

WILLOW STREET BRIDGE.		
One Tender, paid       \$2.50         One Helper, paid       1.75         Two Helpers, each paid       1.50	per da	y.
SWISS STREET BRIDGE.		
One Tender, paid	per we	ek
JEFFERSON STREET BRIDGE		
One Tender, paid	per da	y.
WALWORTH RUN BRIDGE.		
One Tender, paid	per wee	k.
The following is a classified statement of the cost of maintaining for the year:	g Bridg	es
CENTER STREET BRIDGE.		
Bridge Tenders' Pay       \$2,204       75         Supplies       85       71         Repairs       1,217       25         Total       8	3.507	71
The amount paid for Repairs on this Bridge is greater on account of the putting up of Patent Gates costing \$500.00.		
COLUMBUS STREET BRIDGE.		
Bridge Tenders' Pay       \$2,169 00         Supplies       82 10         Repairs       178 92         Total	2.130	02
JEFFERSON STREET BRIDGE.	, ,,	
Bridge Tenders' Pay       \$ 714 75         Supplies       6 04         Repairs       99 87         Total       \$ 39 87	820	66
EAGLE STREET BRIDGE.		
Repairs	53	00
LOWER CENTRAL WAY BRIDGE.		
Bridge Tenders' Pay       \$1.977 75         Supplies       69 07         Repairs       354 70         Total       \$1.977 75	2,401	52
MAIN STREET BRIDGE.		
Bridge Tender's Pay       \$2,261       25         Supplies       54       00         Repairs       459       57         Total       \$3,261       25         Total       \$3,261       25         57       \$3,261       25         57       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8       \$3,261       \$3,261         8 <td>2,774</td> <td>82</td>	2,774	82

SWISS STREET BRIDGE.	
Bridge Tenders' Pay       \$ 36         Supplies       1         Repairs       78         Total	5 00
Supplies	0 88
Total	
Total	w 1,105 JO
UPPER CENTRAL WAY BRIDGE.	
Bridge Tenders' Pay \$1,17	2 50
Supplies	1 14
Supplies	\$ 1,789 87
MERWIN STREET BRIDGE.	
Renairs	r
Repairs	\$ 31 56
SENECA STREET BRIDGE.	
Bridge Tenders' Pay	1 50
Supplies	7 12
Repairs 61 Total	2 31
Total	\$ 2,290 94
WILLOW STREET BRIDGE.	
Bridge Tenders' Pay	O 25
Supplies	6 19
Repairs	60 43 
WALWORTH RUN BRIDGE.	<b>V</b> -1347
	0
Bridge Tender's Pay	25 80
Repairs	7 63
Supplies	\$ 808 42
WINSLOW STREET BRIDGE.	
Repairs	\$ 12 02
COMMERCIAL STREET BRIDGE.	
Repairs	\$ 12 82
SOUTH WATER STREET BRIDGE.	
Repairs	\$ 23 10
EAST MADISON AVENUE BRIDGE.	•
Repairs	\$ 26 87
Grand Total	\$20,689 50

### SUPERINTENDENCE OF WORK.

SUPERINTENDENCE OF WORK.	
The following table shows the cost of superintending the work	:
on the various improvements in progress during the year:	
Construction of Viaduct\$4,330 10	
Dredging and Grading	
Inspector of Sewers	
Inspector of Repairs on Paved Streets 256 oo	
Total\$4,866 10	)
OTHER EMPLOYES.	
Mayor's Clerk and Clerk of Board \$833 31	
Man employed to serve sidewalk and other notices 547 75	
Assistant Clerk of Board	
Copyists	
Elevator Operator	
Engineers of heating apparatus	
Engineers of heating apparatus	
Total\$4,917 09	1
Grand Total	ļ
SPECIAL ASSESSMENTS.	
The cost of making these assessments for 1878 was as fol-	
lows:	
Salary of F. M. Heisley for services in preparing esti-	
mated assessments \$127 04	
Fees of Assessing and Equalizing Boards—	
Willson Avenue grading and improving 225 00	
Sheriff Street opening	
St. Clair Street sewer	
St. Clair Street paving 50 00	
Summit Street sewer	
m . 1	
Total\$ 507 04	
SPRINKLING.	
The cost of this work to the city was as follows:	
West Side Circle and Franklin Ave. through Circle \$ 108 00	
Pearl and Lorain Streets in front of West Side Market. 27 00	

Total....

### CATCH BASINS AND SEWERS.

Alabama Street Sewer Outlet\$	193	88
Burton Street, at Lorain street, putting iron cap and		
cover on flushing-hole	11	25
Cedar Avenue, raising arch	205	05
Champlain Street, taking up spring	157	65
Case Avenue, at outlet	181	56
Cedar Avenue, cleaning out sewer	180	00
Columbus Street, repairing sewer	154	37
Doan Street, at Superior street, laying pipe and build-		
ing catch basin,	63	80
Elm Street, at Second street, putting iron cap and cover		
on man-hole	17	75
Eagle Street Hill, taking up spring	41	00
Franklin Avenue, plastering sewer	6	75
Fullerton Street, laying sewer	280	00
Franklin Street Hill, taking up spring	97	90
Garden Street, putting on flushing-hole cap and cover	9	33
Giddings Avenue, at Quincy street, putting cap and cover		
on flushing-hole	2	50
Gordon Avenue, at Bridge street, repairing sewer	9	70
Hamilton Street, at Wason street, laying pipes	22	63
Kinsman Street, taking up spring	107	30
Kentucky Street, at John street, building catch basin and		
connecting to sewer	<b>48</b>	00
Lexington Avenue, building catch basin and laying sewer		
pipe	154	00
Main street, at Mulberry street, sewer connections	29	58
Oregon Street, building branch sewer and cleaning box-	•	
drains and cellar	181	50
Prospect Street, at Ontario street, repairing and clean-		-
ing sewer	20	35
Ross Street, at St. Clair street, putting cap and cover on		
flushing-hole	13	70
Seneca Street, laying pipe	492	25
Sheriff Street, repairing and cleaning sewer	16	-
Spring Street, examining sewer and repairing pavement	4	00
Sawtell Avenue, laying sewer	141	00
Sibley Street, repairing and plastering catch basins	56	

Swiss Street Bridge, repairing catch basin at north end. St. Clair Street, at Ann street, taking down and rebuild-	39	73
ing catch basins.	26	15
Sterling Avenue, at Prospect street, building catch basin	20	13
cover	10	50
Union Lane, repairing sewer		50
Vineyard Street Hill. taking up spring	-	75
West River Street, at Meyers' foundry, repairing sewer.	•	50
Woodland Avenue, finding sewer connections		25
Washington Street, at Oakland street, putting iron cover	_	-3
and stone on catch basin	10	99
Total		\$3,114 72
THE VIADUCT.		
The following items of expense were on acco	ount	of the Via-
duct:		
Filling in retaining walls and piers of Viaduct		
Removing contents of vaults in line of the Viaduct	-	w
	262	•
3	267	75
Removing and repairing houses in line of the Viaduct	267 322	75
Removing and repairing houses in line of the Viaduct Putting in two catch basins at intersection of Flint street	322	75 40
Removing and repairing houses in line of the Viaduct  Putting in two catch basins at intersection of Flint street and the Viaduct	•	75 40
Removing and repairing houses in line of the Viaduct  Putting in two catch basins at intersection of Flint street and the Viaduct	322	75 40 35
Removing and repairing houses in line of the Viaduct  Putting in two catch basins at intersection of Flint street and the Viaduct	322 25 255	75 40 35 00
Removing and repairing houses in line of the Viaduct  Putting in two catch basins at intersection of Flint street and the Viaduct  Preparing drawings and specifications of steam engine, etc., on the drawbridge  Land purchased for Viaduct purposes	322 25 255 2,300	75 40 35 00 00
Removing and repairing houses in line of the Viaduct  Putting in two catch basins at intersection of Flint street and the Viaduct  Preparing drawings and specifications of steam engine, etc., on the drawbridge  Land purchased for Viaduct purposes  Ornamental lamp pillar and lamp	322 25 255 2,300 85	75 40 35 00 00 00
Removing and repairing houses in line of the Viaduct  Putting in two catch basins at intersection of Flint street and the Viaduct  Preparing drawings and specifications of steam engine, etc., on the drawbridge  Land purchased for Viaduct purposes  Ornamental lamp pillar and lamp  Work on Viaduct pivot pier	322 25 255 2,300 85 45	75 40 35 00 00 00 85
Removing and repairing houses in line of the Viaduct  Putting in two catch basins at intersection of Flint street and the Viaduct  Preparing drawings and specifications of steam engine, etc., on the drawbridge  Land purchased for Viaduct purposes  Ornamental lamp pillar and lamp  Work on Viaduct pivot pier  Work on Viaduct safety gates	322 25 255 2,300 85 45 56	75 40 35 00 00 00 00 85 08
Removing and repairing houses in line of the Viaduct  Putting in two catch basins at intersection of Flint street and the Viaduct  Preparing drawings and specifications of steam engine, etc., on the drawbridge  Land purchased for Viaduct purposes  Ornamental lamp pillar and lamp  Work on Viaduct pivot pier	322 25 255 2,300 85 45 56 28	75 40 35 00 00 00 00 85 08

\$3,711 09

### CATTLE POUNDS.

The following were the expenditures for the year on this account:

account:
FIFTH WARD.
Pound Keeper's pay \$697 50
Coal 6 24
Total \$ 703 74
SIXTH WARD.
Pound Keeper's pay
Rent of Pound
Total\$ 756 25
THIRTEENTH WARD.
Pound Keeper's pay\$687 50
Rent of Pound 50 00
One padlock
Total
FOURTEENTH WARD.
Pound Keeper's pay \$683 75
SEVENTEENTH WARD.
Pound Keeper's pay \$686 25
Rent of Pound 12 00
One staple
Total \$ 698 40
EIGHTEENTH WARD.
Pound Keeper's pay \$701 25
Hardware 7 05
Total \$ 708 30
AND OR OTHER DOLLARD
SWISS STREET POUND.           Pound Keeper's pay
Rept of Pound
Total\$ 697 50
10tai
Grand Total
CUYAHOGA RIVER.
A few expenditures on account of the Cuyahoga River are
given below:
Dredging above Upper Central Way Bridge\$ 6 87
Sounding River 7 75

### CITY DOCUMENTS.

### CITY HALL. Building fence in rear of City Hall and repairing storm door......\$172 66 Burners..... 16 50 Kindlings..... 20 25 Rent of basement and closets in City Hall..... 100 00 Repairs on heating apparatus and elevator...... 400 42 Repairs on offices..... 83 01 Repairs on building..... 50 37 MAYOR'S AND BOARD OF IMPROVEMENTS OFFICE. Stationery..... 80 og 87 63 Total.... \$ 939 84 STREET REPAIRS. Columbus and Pearl streets, repairing break and buildings, \$312 71 Detroit street, earth delivered on same..... East Prospect street, at Morse avenue, repairing...... 54 70 Grand avenue, from Kinsman to Miles street, dressing up roadway...... 6 25 Harvard street, from Broadway to Brecksville road, dressing up roadway...... 90 50 Herald street, from Kinsman street to Woodland avenue. dressing up roadway..... 30 00 St. Clair street, from Becker avenue to city limits, grading same..... Total..... ----- \$ 599 78 MISCELLANEOUS. The following are not capable of classification: Street names put up..... \$ 15 92 Cleaning the new Canal Lock..... 54 50 Piles driven and furnished at Main street bridge...... 295 00 Building fence on Bank street at Union Depot...... 203 79 For sidewalk tax paid by erroneous location of sidewalk. 10 41

Construction of frame work and gates to waste-wier near the Weigh Lock.....

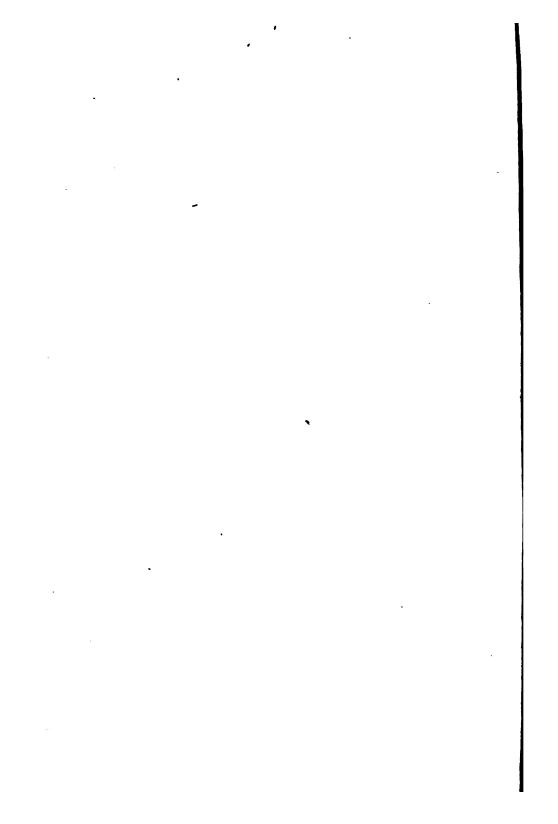
198 87

same	95	00
Canal Improvements	. 16	50
Tool House Repairs	21	40
Stone for paving and repairing Elm street where the		
track to the Viaduct was laid	400	00
Printing and Advertising	. 761	30
Recording plats	27	60
Stamps and car fare	27	20
Total		\$2,127 -
SUMMARY.		
Total cost of Bridges\$2	0,689	50
Total cost of superintendence of work	4,866	10
Total cost of other employes	4.917	οŋ
Special assessments	507	04
m	135	ου
Total cost of sprinkling		72
Total cost of sprinkling	3,114	,-
	3,114	-
Catch Basins, sewers, etc		09
Catch Basins, sewers, etc	3,711	09
Catch Basins, sewers, etc	3,711 4,986 14	09 19 62
Catch Basins, sewers, etc.  Viaduct.  Cattle Pounds.  Total cost of Cuyahoga River dredging.  City Hall Expenditures.	3,711 4,986	09 19 62 84
Catch Basins, sewers, etc	3,711 4,986 14 939	09 19 62 84 78

All of which is respectfully submitted.

By order of the Board of Improvements,

W. E. SHERWOOD, Clerk.

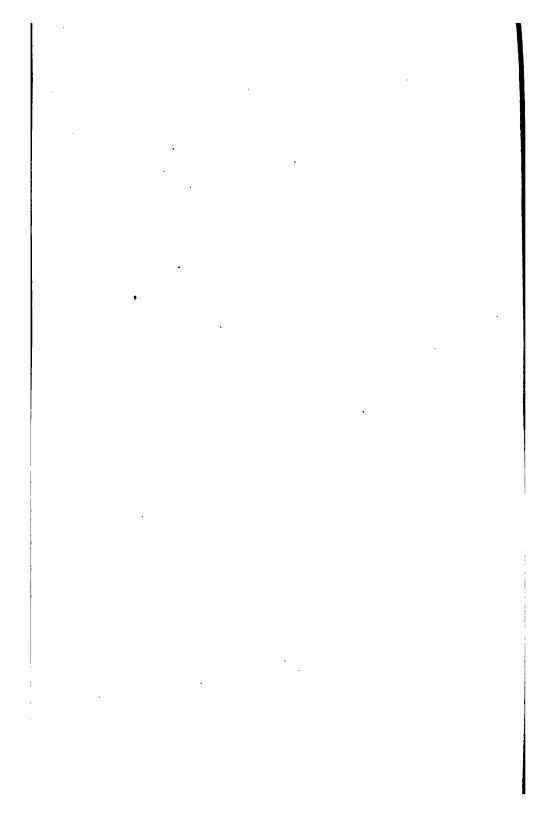


OF THE

# CITY CIVIL ENGINEER,

FOR THE

YEAR ENDING DEC. 31st. 1878.



# CIVIL ENGINEER'S REPORT.

CLEVELAND, January 1, 1879.

To his Honor, the Mayor and the Honorable City Council of the City of Cleveland:

GENTLEMEN:—I have the honor to submit the Annual Report of the City Civil Engineer's Department during the year 1878:

The total cost of all the work done under the direction of the City Civil Engineer's Department during the year is \$486,433.63, of this amount \$444,894.77 has been expended on the Superior and Pearl Street Viaduct, leaving a balance of \$41,538.85 for all other improvements. The supervision of the work above referred to does not, however, include all the work that has been done by this Department.

The closing up of the various public works, etc., that have been made since 1870 have entailed upon this office more or less work from year to year in the preparation of maps for assessment, litigation, etc., During the past two years a part of the corps have, as time would permit, been engaged in making surveys of streets and placing monuments where none have been placed heretofore. There is a large amount of this work yet to be done, and during the present year, while there is but a small amount of other work on hand I shall keep all the men in the corps available employed in extending and completing the survey of streets, etc. In this way I can keep the present force of six or seven men fully employed to great advantage.

The Superior Street Viaduct was opened to the public December 27th, 1878, and bids fair to be all that was expected of it as a public convenience between the east and west side of the city. At this date the exact cost of the Viaduct cannot be ascertained, as there are several contracts uncompleted on different parts of it, but the amount of unfinished work is so small that it is certain that the whole can be completed within the estimate made at the time of the last legislation was procured, and a vote taken to complete the Viaduct. That estimate called for \$2,200,000, and there has been expended on the Viaduct for construction, right of way, and all other expenses to date about \$2,125,238,13.

The Canal Improvement is about completed and the city can by Spring use that part of the canal bed below the new locks for any purpose that it may desire. There has been constructed during the past year a new waste-wier, and the docks of Marsh & Harwood just below the new lock, have been rebuilt, and a row of protection piling driven above the Weigh Lock. These improvements were required by the Board of Public Works. The total amount expended on the canal improvement during the year 1878 is \$1,483.43.

### CUYAHOGA RIVER.

Only a very small amount of dredging has been done during the past year, and that mostly above Upper Central Way bridge, to complete the contract on that part of the river, which was let in 1876. The total cost of dredging in this part of the river during the year 1878 is \$8.859.72. This does not include the ten per cent, reserved on work done during the year 1876 and 1877.

There has been but a small amount of dredging done below Upper Central Way bridge, as there were no funds available for that purpose. There will have to be considerable dredging done on this part of the river during the coming season. There will be from ten to fifteen thousand dollars that can be used for this purpose. This amount is raised on the general tax duplicate, and is to pay for one half the dredging, or, in the center channel, all dredging that is necessary to be done alongside of pri-

vate docks this year will have to be paid for by the owners themselves until an assessment has been made in advance of the work being done, as a contract cannot be let for any part of the dredging unless the money is in the treasury to pay for it.

Under the Burns Law no sewers can be built, streets graded or paved, until the money is in the Treasury to pay for the same. This has practically closed or stopped all public improve-In a city of 150,000 inhabitants it becomes a sanitary necessity to repair and build more or less branch sewers every vear, and it would appear at first thought, that if the residents on any street should want a sewer built, that they could voluntarily join together and each one contribute his proper proportion, but it has always been the case, in good or bad times, that some of the property owners of vacant lots, or nonresidents, would not join and pay their proportion, and as a consequence, the other property owners or residents on the street have to pay for the improvement in front of their own premises as well as for those who will not sign for the improvement. For this reason very little work can be done in this way. There ought to be some way provided by which branch sewers can be rebuilt or repairs made to sewers without waiting a vear or two to raise the money by taxation, and the same may be said of repaying the streets of the city. It will be necessary if there are any streets that should be paved or repaired, or any sewers that should be built during the next two or three years, to commence and levy the tax for the whole or a part of the cost of such improvement this year, so that means can be provided to do the work when it can no longer be delayed.

The repairs of paved streets were let out by contract, and about two-thirds of the work has been completed. Some of the oldest wood paved streets in the city are hardly worth repairing, and will soon have to be repaved. The amount expended during 1878 on repairs of pavements is \$14,662.35.

The accompanying tables exhibit in detail the work and cost of the various improvements made during the year 1878.

Since the completion of the Viaduct the number of employees in this office has been reduced to six; only one-fourth the number employed in 1875 and 1876.

Respectfully submitted.

B. F. MORSE. City Civil Engineer.

STREETS, ALLEYS, ETC., OVER WHICH LEVELS HAVE BEEN RUN OR CROSS SECTIONS TAKEN DURING THE YEAR. TABLE NO. 1.

NAME.	PROM.	TO.	FRET IN WIDTH.	FEET IN	WORK DONE.
Alley	Warren	Trumbull .	16%	347	Levels.
Alley	3	Alley.	91	<b>3</b>	Levels.
Alley North of Garden.	Sterling	Alley	82	570	Cross Section.
3	3	Newton	왬	蓊	Cross Section.
Alley South of St. Clair	Seneca	Westerly	<b>9</b> 2	923	Cross Section.
Alley North of Broadway	Perry	Easterly.	91	#1	Levels.
: ::::::::::::::::::::::::::::::::::::	Liberal	Alley	23	25	Levels.
Alley West of Liberal	Cherry	Alley	왬	ŝ	Levels.
Clyde Street	University	Southerly	<b>\$</b>	418	Cross Section.
Concord Street	Croton	Southerly.	<b>\$</b>	883	Levels.
Ditch	St. ('lair	L. V. & C. R. R.	뫮	3100	Levels.
Evergreen Street	Roland	Nobles 8. Line	8	184	Levels.
Hay Market	Central Place	Hm	8	495	Cross Section.
Hoadley Street.	St. Clair	Payne	8	2733	Levels.
Higgins Street	Lorain	Clark	8	1500	Levels.
Market Grounds	Broadway	Ajley	<del>3</del> 2		Cross Section.
		-			

TABLE NO. 1-CONTINUED.

	FROM.	то.	WIDTH.	LENGTH.	WORK DONE.
Market Grounds	Broadway.	Forsyth	윧	140	Cross Section.
Ontario Street	Summit	Lake Erie	83	88	Levels.
Pearl Street		Walworth Run Monroe	%88	640	Levels.
Superior Street	Water	Public Square	38	1330	Levels.
South Alley	Canffeld	New Alley	83	1028	Levels.
University Street	Stark weather.	Southerly	26	1182	Cross Section.
Vladuct	. Cuyahoga River	Piers 8 and 10		177	Levels.
Viaduet	Water	East End Iron Bridge	25	27	Cross Section.
Victor Street   Glazier	.   Glazier	A. & G. W. Railway	% <b>67</b>	166	Cross Section.
Washington Street. Pearl Center	Pearl	Center	88	1162	Levels.

TABLE NO. 2.

STREETS REPAIRED, GRADED, OR OTHERWISE IMPROVED, UPON WHICH ENGINEERING WORK WAS DONE BY THE 100 00 Property Owners Property Owners Property Owners Property Owners Property Owners Property Owners 106 25 | Property Owners Property Owners Property Owners Property Owners CONTRACTOR. City. City. Gty. \$<u>7</u> 78 57 306 85 300 00 \$ 221 17 88 00 000 160 00 \$2,585 56 COST. LENGTH. FEET. . !? 3 53 홿 器 3, ...... Gutters Opened.... Curbed Curbed Re-surfaced..... Opened..... HOW IMPROVED. Graded..... Re-surfaced.. DEPARTMENT DURING THE YEAR. Graded. Curbed Curbed Curbed. Graded. Graded Grauled Superlor.... Zeneca... Scranton Doan Brook Westerly\* ... C. C. & I. R. R. . . . . . . ('Ity Limits...... Superior.... Easterly Easterly..... Southerly Westerly Engle Avenue (incomplete)... Broadway..... Tod..... Ę Clark East Prospect..... Northerly. ...... Cedar Avenue. . ... Gordon... Gordon..... Gordon.... Kirtland Street (incomplete).... St. Clair.... Ontario Columbus..... St. Clair.... Roland Lorain. Fairmount ..... FROM. Cedar Avenue...... Gordon Avenue..... Higgins Street.... Summit Street. Franklin Avenue..... Bridge Street.. ...... Evergreen Street..... Ditch..... Ditch..... ('linton Street..... Arlington Street... NAME. Fir Street.....

TABLE NO. 1-CONTINUED.

	FROM.	TO.	FEET IN WIDTH.	· FRET IN LENGTH.	WORK DONE.
Market Grounds Broadway.	Broadway	Forsyth	le le	941	Cross Section.
Ontario Street	Summit	Lake Erie	88	838	Levels.
Pearl Street	Walworth Run Monroe	Monroe	%38	040	Levels.
Superior Street	Water	Public Square	381	1330	Levels.
South Alley	Cynffeld	New Alley	8	1028	Levels.
University Street	Stark weather	Southerly	22	1182	Cross Section.
Viaduct.	Cuyahoga River.	Piers 8 and 10		Ę	Levels.
Viaduct	Water.	East End Iron Bridge	25	27.	Cross Section.
Vietor Street	:	A. & G. W. Railway	<b>767</b>	166	Cross Section.
Washington Street Poarl	Pearl	Center	<b>3</b>	1162	Levels.

# STREETS REPAIRED, GRADED, OR OTHERWINE IMPROVED, UPON WHICH ENGINEERING WORK WAS DONE BY THE DEPARTMENT DURING THE YEAR.

TABLE No. 2.

NAME.	PROM.	T0.	HOW IMPROVED.	LENGTH.	COST.	CONTRACTOR.
Bridge Street	Cedar Avenue	Easterly	Curbed	98	\$ 221 17	\$ 221 17 Property Owners
Cedar Avenue	Fairmount	Doun Brook	Graded	1,178	100 00	100 00 Property Owners
Clinton Street	Gordon.	Westerly	Curbed	008	28 55	284 75 Property Owners
Evergmen Street	Roland	Southerly	Graded	497	78 57	78 54 Property Owners
Fir Street.	Gordon	Easterly	Curbed	<b>88</b>	106 25	106 25 - Property Owners
Franklin Avenue	Gordon.	Westerly	Curbed	<b>908</b>	306 85	306 85 Property Owners
Gordon Avenue	C. C. & I. R. R.	City Limits	Graded	2,198	1.000 00	1.000 00 Property Owners
Higgins Street	Lorain.	Clark	Graded	1,500	300 00	300 00 Property Owners
Kirtland Street (incomplete)	St. Chair	Superior	Graded	1,127	160 00	Property Owners
Summit Street.	Ontario	Seneca	Curbed	140	88	Property Owners
				-	\$2,585 56	
Arlington Street	Columbus	Scranton	Re-surfaced	8775		City.
Ditch.	St. Clair.	Superior	Re-surfaced	1,230	:	City.
Ditch.	East Prospect	Northerly	Opened	088	:	City.
Engle Avenue (Incomplete) Broadway	Broadway	Tod	Gutters Opened	1.49		City.

TABLE NO. 2.—CONTINUED.

NAMB.	FROM.	TO.	HOW IMPROVED.	LENGTH. FEET.	COST.	CONTRACTOR.
Franklin Avenue (Incomplete) Waverly	Waverly	Westerly Grade and Curb	Grade and Curb	77		Property Owners
Glazier Street Nursery	Nursery	A. & G. W. R'y Gutters Opened	Gutters Opened	200	City.	City.
Hillman Street (incomplete)		Tod Gutters Opened	Gutters Opened	1,130	City.	City.
Mead Avenue Broadway	:	Angle	Gutters Opened	88	City.	City.
Orth Street Lorain	Lorsin	Grove Alley	Gutters Opened	88	City.	City.
Scranton Avenue Paratine	Parafine.	Wade	Re-surfaced	2,585	City.	City.
Victor Street	Glazier A. & G. W. R'y Gutters Opened.	A. & G. W. R'y	Gutters Opened	98	City.	City.
Walnut Street	Erle.	Oak Curbed	Curbed	98	:	Property Owners
York Street	Bridge.	Circle	Graded	788	City.	City.
				21,888		
•			-		-,	'

TABLE NO. 8. STREETS UPON WHICH SIDEWALK GRADES HAVE BEEN GIVEN. 

NAME.	FRET IN LENGTH.
Cedar Avenue	665
Case Avenue	541
Cheshire Street	202
Clifton Street.	125
Curtiss Avenue	132
Eagle Street	66
Forest Street	499
Gordon Avenue	1450
Lorain Street	85
Miles Avenue	66
Ohio Street.	175
Summit Street	1743
Walnut Street.	99
Walton Avenue	1340
Washington Street	1190
Total	8378

TABLE NO. 4. SEWERS BUILT DURING 1878.

CONTRACTOR.	Pipe \$ 832 68 Wood & Sons.	280 00 Wood & Sons.	208 52 J. Mahon, Jr.	86 S. Wood & Sons	127 75 L. F. Boers.	28 25 L. F. Beerr,	30 00 G. Dennon.	24 70 G. Dennon.	163 50 A. G. Daykin.	990 00 S. Wood & Sons	2,048 81 S. Wood & Sons	Brick, 1,551 93 A. Campbell.	. 1
COST.	25 88 •••	8	<u></u>	810 86	23	8	≅-	**	38	8	2,043	1,561	
NIZE IN INCHES, MATERIAL.	Pipe	Pipe	Brick	Brick	Р.ре	Pipe	Pipe	Pipe	Pipe	Brick	Iron	Brick.	_
SIZE IN INCHER.	12x12	12x12	27.X28	34x24	15x15	12×12	#X	6 x6	12×12	27.x23	30x30	51x40	
CROSS SECTIONS.	Circular	Circular	Egg Shape	Greular	Circular	Circular	Circular	Circular	Circular	Egg Shape	Circular	Egg Shape,.	•
LENGTH IN FRET.	1,89,	200	150	508	17	ы Н	26	巷	<b>80</b>	098	<del>1</del> 12	328	
Ę.	Arlington Street Garden Seovill	Cornell	Detroit	Westerly	Giddings Br'k	Giddings Br'k	Northerly	Northerly	Easterly	Woodland	Мовгое	Monroe	
FROM.	rden	Broadway Cornell	Viaduct	Houston Street Cuyshoga River Westerly	East Madison Giddings Br'k	East Madison Giddings Br'k	Morse Avenue   East Prospect Northerly	East Prospect Northerly	Dodge	Scorfll Woodland	Walworth Run Monree	Walworth Run Monroe	1
	8	Ä	>	೮	Lexington Avenue E.	$\alpha$	ΕĎ		Д	Ŧ.	=	-	

TABLE NO. 4. -CONTINUED.

Z Z Z	FROM.	Ŧ3.	LENGTH IN FEBT.		SIZE IN INCHES.	CROSS SIZE MATERIAL.	CONT.	CONTRACTOR
Sawtell Avenue Woodland Southerly	Woodland	Southerly	) %E	Chreular	12x12	Pfpe	}	282 00 S. Wood & Sons
Vladuct	W. End Masonry. Vermont	Vermont	<b>8</b>	Egg Shape.	27x28	Brick		1,084 96 J. Mahon, Jr.
Viaduct	('enter	Pier No. 17	2	Egg Shape	27x28	Brick	123 57	123 57 J. Mahon, Jr.
Viaduct	Center	Pier No. 15	28	Egg Shape.	27x23	Brick		160 69 J. Mahon, Jr.
Viaduet	Cuyahoga River. Piers 8 and 10.	Piers 8 and 10.	<b>0</b> 88	Circular	30x30	Brick		665 56 J. Mahon, Jr.
Viaduct	Ret. Wall E. Side. Westerly	Westerly	ğ	Cfreular	9 x9	6x 6   Pipe	<b>35</b>	39 84 J. Mahon, Jr.
Totals			6,020 Mi	6,020-Miles1,140			\$9,411 62	

STREETS, AVENUES AND LOTS OF WHICH SURVEYS AND MAPS HAVE BEEN MADE IN 1878. TABLE NO. 5.

NAME.	FROM.	10),	FEET IN LENGTH
Agreed Street	Payne Avenue	St. ("lair Street	808
Belden Street	Payne Avenue	St. Clair Street	2750.10
('ase Avenue'	Payne Avenue	St. Clair Street	2534.41
('entral Way	Cuyahoga Street	Stones Levee	2000.56
Clark Avenue	Rhodes Avenue.	East Line of Lot 68	2001.00
('lifton Street	Payne Avenue	St. Clair Street.	2446.96
Cooper Street.	Clifton Street.	Lynnan Street	782.13
C. &. P. Railroad Tracks	Payne Avenue	Superior Street	1500.98
Danford Street	Payne Avenue	Superior Street	1174.19
Detroit Street	Angle, West of Hanover	East of Pearl Street	1124.00
Euclid Avenue, South Side	Perry Street:	Sterling Avenue	1901.10
Hoadley Street	Superior Street	St. Clair Street.	1214.38
Kirtland Street	Payne Avenue	Superior Street	1666.30
Lawrence Street.	Раупе Аvenue	St. Clair Street.	2167.52
Lyman Street	Payne Avenue	St. Clair Street	2611.51

# TABLE NO. 5-CONTINUED.

TABLE NO. 7.

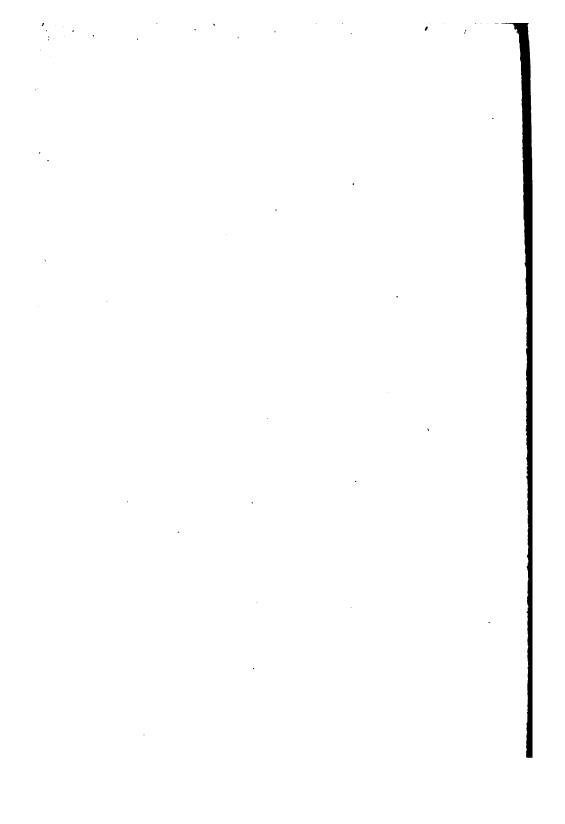
SUMMARY OF THE WORK DONE BY THE ENGINEER'S DEPARTMENT DURING THE YEAR 1878.	'S DEPARTMENT DURING THE YEAR 1878.	1
NAME OF IMPROVEMENT.	CONTRACTOR.	CORT.
Canal Waste-Wier, near new Canal Lock	L. F. Beers	\$ 1,083 63
Concrete Pavement Repairs	Columbus Paving Company	4,307 02
Columbus and Pearl Street Sewer.	Wood & Sons & Campbell	3,595 74
Cuyahoga River Dredging, above Upper Central Way Bridge	Sims & Smith	ST 658.8
Cedar Avenue Sewer Repairs	Wood & Sons	180 00
Grading and Curbing, as per Table		2,545 56
*Protection Piling at Weigh Lock	L. F. Beers	386 20
*River Lock, near new Weigh Lock.	L. F. Beers	450 00
Stone Pavement Repairs.	A. Campbell	75 258
Sewers, as per Table		9,782 16
Viaduct, Stone Work	E. W. Ensign	23,206 54
Viaduct, Iron Bridges	Claffen & Sheldon	129,852 39
Viaduct, Engine Room Floor	Claffen & Sheldon	950 00
*Vladuct, Iron Stairway, Merwin Street	Claffen & Sheldon	820 00
		:



# TABLE NO. 7-CONTINUED.

NAME OF IMPROVEMENT.	CONTRACTOR.	COST.
*Viaduct, Iron Stairway, Piers 8 and 15	Woodhill & O'Gorman	
Vladuct, Stone Pavement, Crosswalk, etc	Albion, Medina, Stone Company	31,425 16
Viaduct, Street Railroad	Albion, Medina, Stone Company	4,766 59
"Viaduct, Flagging	Maxwell, McBride & Malone	3,987 65
Viaduct, Hand Railing	Lauderbach & Co	11,160 00
Viaduct, Steam Engine	W. H. Thompson	4,100 00
Vladuct, Sewers John Mahon, Jr.	John Mahon, Jr	2,278 14
Wood Pavement RepairsBrennan, Wood & Campbell.	Brennan, Wood & Campbell	9.572 76
Total		£486,433 63

\*Not Completed January 1, 1879.



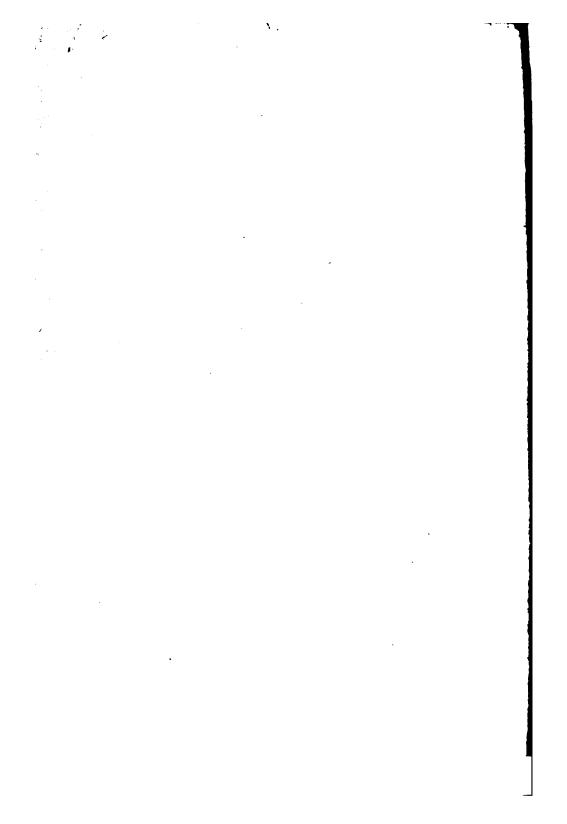
# ANNUAL REPORT

OF THE

# STREET COMMISSIONER,

FOR THE

YEAR ENDING DEC. 31, 1878.



# STREET COMMISSIONER'S REPORT

To the Honorable City Council;

GENTLEMEN:—The Street Commissioner herewith respectfully submits a statement in detail of the work performed and cost incurred in the Street Department for the year ending December 31st. 1878:

From this statement it will be seen that the cost of operating the Department for the past year is very much less than for many years before.

In order that you may fully realize the extent of the retrenchment which has taken place I have prepared a table showing the expenditures of the Department for substantially the same purposes during the last five years:

1874	-	-	•	-		\$ 96,041	57
1875		-	٠.			101,572	68
1876, for	r 11 montl	18,	-			105,209	<b>59</b>
1877		-	-		-	60,741	97
1878	•	-		-		47,274	49

Thus it will be seen that the expenditures for last year were more than 50 per cent. less than for 1874, '75 and '76, making an absolute gain to the city of \$50,000. Two causes may be assigned for this difference. First, The great decrease in the price of labor from former years. Second, The contract system adopted on the cleaning of streets, avenues, alleys, catchbasins and market spaces.

Contracts have been secured for the performance of this work on terms exceedingly favorable to the city and for much less than it could possibly be done for under the old system.

In some instances the work may not have been done quite as well as where the Street Commissioner has direct control of and is immediately responsible for it; still I think that with a short experience nearly all deficiencies can be corrected and the contract system rendered quite as efficient as the old method.

The cost of cleaning and repairing streets, avenues and alleys exclusive of the work done under contract, is as follows:

Abbey Street	-		-		-		-		-		\$ 4	31
Ackley Street		-		-		-				-	29	38
Alabama Street	-		-		-		-		-		4	50
Atlantic Street		-		-		-		-			13	25
Ash Street			-		-		-		-		6	81
Auburn Street				-		-				-	11	25
Armitage Street ·	-		-		•		-		-		4	50
Axtell Street		-				•		-		-	11	25
Bank Street	-				-						3	75
Bailey Street		-				-		-			4	12
Barber Avenue			-		-		-				7	75
Berg Street		-		-		-		-		-	23	37
Becker Avenue			-		-		-				6	75
Bissell Street		•		-		-				-	4	50
Broadway	-		٠.		-		-				205	35
Bradford Street		-		-		-		-			124	91
Bridge Street			-		-						31	89
Branch Street		-		-		-		-		-	15	88
Brick Street			-		-		-		-		21	62
Brock Street		•				-					191	25
Brooklyn Street	-		-		-		-		•		20	75
Burton Street		-		-		-		-		-	52	27
Canal Street	•		-		-		-		-		113	12
Carroll Street		-				•		-		-	7	81
Case Avenue	-		•		•		•		•		1	00

1	REPO	RT	OF	THE	STI	REET	CO	MMI	SSIC	NER.	. •	1	05
Central Way	y											5	07
Chestnut Ri		Roa	ad			-				-		61	86
Chatham St	reet				-		-		-			24	57
Cedar Aven	ue	-		-				-		-		39	18
Chestnut Str	eet						-					2	88
Cliff Street										-		22	25
Clark Aven	ue		-		-				-			289	25
City Dock				-		-		-		-		1	48
Clifton Stre	et		-				-		-			6	63
Cross Street		٠.		-		-		-		-		38	14
Croton Stre	et		-		-				-			12	00
('olumbus S	treet	-		-	•			•		-		474	99
Concord Str	eet				-		-		-		-	5	50
Cooper Stre	et	-		-		-		•		-		2	76
Cornell Stre	eet		-		-		-		-		-	7	00
Courtland S	treet	-				-		-		•		2	00
Conrad Stre	et		-		-				-			4	00
Cook Street				-				. <b>-</b>		-		5	75
Davis Street	;		-		-				-			32	50
Davidson St	reet							-		-		19	88
Detroit Stre	et		-		-		-		•				<b>75</b>
Dille Street		-						-		-		103	50
Dixon Stree	t		-		-				-		-	5	25
Division Str	eet	•		-		-		-		-		113	75
Duane Stree	ŧ		-		-				-		-	12	<b>75</b>
Eagle Street	;	-		•		-		•		•		11	50
East Madiso	n A	ven	ue		-		•		-			7	00
East Prospec	ct Sti	ree	t	•		-		-		•		14	50
Ellenwood S	Street	,	-		-		-		-	•	-	12	75
Elm Street		•		-		-				-		13	00
Euclid Aver	iue		-		-		-		•		-	5	38
Fairmount ?	treet					٠				-		434	38
Fairfield Str	reet		-								-	5	75
Frankfort S	treet			-		-						l	38
Forest Stree	t		-		-		-	•	-			107	97

Fremont Street -		-		-		-		•		18	12
Franklin Street Hill					-		•		-	199	43
Fowler Street -		-		-		-				1	25
Front Street	-		-		-		-		-	15	64
Fourth Street -		-				•		-		7	50
Franklin Alley					-				-	11	00
Fulton Street -					•	-		-		2	00
Girard Street	-		-				-		-	3	12
Grand Avenue -		-		-		-				67	00
Grove Street	-				-				-	10	25
Green Street -										2	75
Harbor Street			•	•					-	18	50
Hanover Street -						-				17	50
Hay Market			-				-		-	7.5	00
Hartford Street -				-		-		-		15	94
Hamilton Street			-						-	16	37
Harrison Street -										24	50
Hermann Street	-		-						-	46	00
Hicks Street -										6	33
Hill Street -			•		-		-		-	7	50
Hickox Street -		-		-				-		1	87
Holmden Street							-		-	10	50
Hough Avenue -		-		-		-				5	64
Hurd Street	-		-		-				-	22	49
Independence Street	t					-				203	55
Jay Street	-		-		-		-		-	5	25
Jennings Avenue		-		-		-		-		84	64
Jefferson Street	-		-		-		-		-	24	37
Jersey Street -		-		-		-		-		5	19
Jones Avenue	-		-		-		-		-	2	50
Junction Street -		-		-		-		-		16	13
Kinsman Street	-		-		-		-		-	8	49
Lake Street -		-		-		-		-		13	50
Lexington Avenue	-		-		•		-		-	20	00
Linden Street -		-		-		_				1	75

REPORT	OF	THE	ST	REET	. (	омм	188	ONI	ER.		1	107
·												
Literary Street	-		-		-		-		-			62
Lorain Street -		-		-		-		-			228	75
Madison Avenue	-		-		-		-		-		2	25
Mayflower Street		-		-		-		•			5	00
Merchants' Avenue	-		-		-		-		-		6	93
Merwin Street -		-		-		-		-			2	00
Milford Street	-		-		-		-		-4		24	75
Mill Street -		-		•		-		-			245	95
Munroe Street	-		-		-		-		•		23	63
Morse Avenue	-		-		-		-		-		1	25
McLane Street -		-		-		-		-			15	19
Oakdale Street	-		-		-		-		-		15	50
Old River Street		-		-		-		-			93	<b>50</b>
Ontario Street	-		-		-		-		-		3	<b>50</b>
Orchard Street -		-	,	-		-		-			9	06
Oregon Street	-		-		-		-		-		9	63
Parkman Street -		-		-		-		-		-	2	87
Pelton Avenue	-		-		-		-		-		15	18
Pearl Street, -		-		-		-		-		-	53	12
Petrie Street	-				-		-		-		1	50
Professor Street	•			-		-		-		-	5	63
Prim Street -	-		-		-		-		-		48	25
Putnam Street -		-		-		-		-			4	25
Quincy Street	-		-		-		-		-		16	00
Ravine Street -		-		-		-		-		-	14	50
Rhodes Avenue	-		-		-		-		-		29	19
Rockwell Street		- ′		-		-		-		-		87
Rossiter Street-			-		-		-		-		5	63
Russia Street -		-		-		-	•	-		_	35	94
Sawtell Avenue	_		-		-		-		-		12	12
Scoville Avenue		-		-		-		-		_	6	69
Scranton Avenue	-		-		_		-		-		37	38
Sevmour Street		_				-		-		_	2	13
Sibley Street,	_		-				_		-		3	00
Slator Stroot								_	•			7.0

Sheridan Street,		-		-		-		-		-		50
Sheriff Street	-		-		-		-		-		4	00
St. Clair Street,		_		-		-		-		-	260	25
Superior Street.			-		-		-		_		72	00
Stone's Levee.		_		-		-		_		-	45	50
State Street.	-		_		-		-		-		32	82
Swiss Street.		<u>.</u> .		-		-		-		-	12	12
Taylor Street.	_		_		_		-		-		33	37
Third Street,		-		_		-		_		-	7	50
Trumbull Street.			_		_		_		-		137	56
Train Street,		_		_		-		_			23	25
Tremont Street.			_				_				14	51
Tracey Street,				-				_			18	25
Union Street,			_				_		_		10	00
Vandyke Street,		_		-		-				_	2	00
Vega Avenue,			_		_		_		-		19	26
Vermont Street.		_						_		_	23	12
Vinegar Hill,	_		_				_		-		8	00
Watkins Street,		_				_				_	15	94
Washington Stre	et		_								4	19
Warner Road,		_				_		_			66	25
Waverly Street,		-			_		_				14	38
Walton Avenue.			-		-	_		_		_	8	69
Wason Street,		-	_	-	_	•	_		_		13	
Ward Street,	-	_	-	_		_		_		_	8	50
Whitman Street,			_		_		-		-		3	13
Willow Street,		-		-		-		-		-	4	38
Willey Street,	-		-		-		-		-		477	12
Winslow Street.		-		-		-		-		-	1	30
Willett Street,	•		-		-		-		-		15	87
Willson Avenue	,	-		-		-		-		-	63	
Woodland Aven			-		-		-		-		143	
Woodland Hills	Av	enue	<b>).</b>	-		-		•		-	2	50
York Street,	-		-		-		-		-		155	97
Total -		-		-		•		-		\$0	3,606	27

The following table shows the cost of repairing and replacing all pavements by persons in the Street Department. This showing includes all expenditures for labor in replacing pavement removed; to lay, clean and repair all sewers and all pipes of every kind as well as for improving the street:

Alabama Street,	-		-		-		-		-	ð	00
Alley at Court Hous	e,			-		-		-		3	88
Alley at rear of Eng	ine	Hot	ıse	No.	2.		-		-	3	50
Broadway, -		-		-				-		93	65
Bank Street,	-	•	-		-				-	35	24
Brownell Street.		-		-		-		-		17	11
Champlain Street,	-		-		-		•		-	32	08
Canal Street, -		-		-		-		-		10	54
Columbus, Street,	-		-		-		-		-	62	29
Central Way, -		-		-		-		-		8	07
Central Place,	-		-		-		-		-	3	86
Center Street, -		-		-		-		-		43	89
Central Market,	-		-				-		-	22	94
Cedar Avenue,		-		-		-		-		14	87
Commercial Street,	-		-				-		-	6	7.5
City Yard, -		-		<b>-</b> ,		-		•		2	00
Detroit Street.	-		-		-		-		-	57	59
Euclid Avenue.				-		-		-		120	05
Erie Street.	-				-		-		-	63	89
Eagle Street, -		-		-		-		-		7	17
Elm Street, -	-		-		-		-		-	28	08
Front Street, -		-		•		-				36	30
Frankfort Street.			-		-		•		•	10	00
Franklin Avenue.				-		-		-		34	51
Fulton Street,	-		-		-		-		•	5	75
Forest Street, .		-		-		-		-		1	50
Grand Avenue.	-		-		-		-		-	3	73
Garden Street		-				ͺ-		-		51	67
Garden Court,	-		-		-		-		-	3	13
Hickor Street						_		_		1	4.

Hamilton Street.										3	00
Johnson Street,	-		-		-		-		-		00
Jefferson Street,		•		-		-		-		3	
Kinsman Street.	-		-		-		-		-	12	80
· · · · · ·		-		-		-		-		53	7.5
Long Street, -	-		-		-		-		-	22	41
Lorain Street, -		-		-		-		•		24	77
Literary Street,	-		-		- '		-		-	4	25
Lake Street, -		-		-		-		•		1	44
Meadow Street,	-		-		-		-		-	15	38
Merwin Street, -		-		-		-		-		69	93
Muirson Street,	-		-		-		•		-	1	69
Michigan Street,		-		-		-		•		28	74
Main Street,	-				-		-		-	5	76
Mulberry Street,		-		-		-		-		7	00
Ontario Street,	-		-		-		-		-	108	26
Ohio Street, -		-		-		-		-	•	16	51
Old River Street,	-		-		-		-		-	7	25
Perry Street, -		-				-		-		3	38
Prospect Street,	-		-		-		-		-	31	<b>52</b>
Pearl Street, -		-		-		-		•		48	65
Public Square,	-		-		-		-			37	04
Payne Avenue, -		-		-		-		-		4	25
River Street,	-		-		-		-		-	25	44
Rockwell Street,		-		-		-		-		32	93
St. Clair Street,	-		-		-		-		-	112	67
Sterling Avenue,		-		-		-		-		15	75
Seneca Street,	-		-				-		-	33	30
Superior Street, -		-		-		-		_		48	82
Superior Street Hill,							_			3	13
South Water Street,		_						-		9	25
Scranton Avenue,					_		_			44	86
Union Street, -				_		_				 55	74
Viaduct,			_						_	8	50
Woodland Avenue,				_		-		. •		90	
Wast Street										,,,,,	

REPORT	COF	THE	STRI	EET	COM	MISS	ION	CR.		111
Wood Street, -			-		-		-		5	82
West River Street,	-		-					-	8	4.5
Water Street, -		-	-		-		•		19	69
West Side Market,	-		-			-		-	23	75
Puddling on Paved	l Str	eets,	-		-		-		50	69
m . 1								_		
Total, -	-	-		•		•		\$	1,892	13

A large portion of this work was done for and charged to certain companies and private individuals. There have been paid during the year on these bills, and similar ones contracted in 1877, \$2,244-61. This money has all been paid into the City Treasury and placed to the credit of the Street Fund.

#### STREET WORK UNDER CONTRACT.

### Old Contract.

Ninth Estimate—12 538	-1000 mile	es of stre	etso	leaned		
at \$28 00, -	-	-	-	-	8 - 351	06
Tenth Estimate-654-10	000 miles	of stre	ets (	cleaned		
at \$28 00, -	-	-	-	-	18	32
Eleventh Estimate—6	774-1000	$_{ m miles}$	of	streets		
cleaned at \$28 00,	-	-	-	-	189	67
Twelfth Estimate—19	843 1000	miles	$\mathbf{of}$	streets		
cleaned at \$28 00.	-	-	-	-	555	60
Thirteenth Estimate-1	9 936-100	00 miles	of	streets		
cleaned at \$28 00.	-	-		-	558	21
Fourteenth Estimate—2	25 134-100	00 miles	of	streets		
cleaned at \$28 00,	-		-	-	703	75
Fifteenth Estimate 38	938-100	00 miles	of	streets		
cleaned at \$28 00,	•	-	-	-	1,090	26
Sixteenth Estimate—32	2 828-100	0 miles	of	streets		
cleaned at \$28 00,	-	-		-	919	18
Seventeenth Estimate—	-48 390 10	000 mile	s of	streets		
cleaned at \$28 00,	-	-	•	•	1,354	92

C	enth E	Istimate	40	961-10	00 m	iles of	stre	ets		
cle	eaned a	it \$28 C	90,	-	-	-		-	1,146	91
Ninete	eth Es	timate-	<b>-</b> 35 7	27-100	)0 mi	les of	stre	ets		
cle	eaned a	at \$28	00,	•	-			-	1,000	36
Twenti	ieth Es	stimate-	<b>-42</b> 7	25.100	)0 mi	les of	stre	ets		
cle	eaned a	t \$28 0	0,	-		-		-	1,196	30
Twent	y-first l	Estimat	e20	263 1	000 m	iles o	f stre	ets		
	-	at \$28 (		-				-	567	36
Twenty	v-secon	d Esti	mate-	-18 3	15-10	00 m	niles	of		
•	,	eaned a						-	512	82
Twenty	y third	Estima	te—12	941-1	000 m	iles o	f stre	ets		
		at \$28 0							362	35
Twent	y-fourt	h Estim								
		at \$28							- 989	27
Twent	v-fifth	Estimat								
	•	at \$28							604	83
Twent	v-sixth	Estima	ate—5	79-100	)0 mi	les of	stre	ets		
cle	eaned a	at \$28	00, -			-	-		- 16	21
Extra	Wank	1	Patima		0					
LIAULO	WOLK	as per 1	บรบบบล	te No	. 17,	•	-	-	30	UU
	work	as per 1		ite No					30 36	
										48
••	••		• •	"	10, 20,		<b>.</b>		36 120	48 00
				 	10, 20, 22,			-	36 120	48 00 89
				 	10, 20, 22, 23,	•		-	$\frac{36}{120}$	48 00 89 00
				 	10, 20, 22, 23, 25,	•			36 120 315 76	48 00 89 00 08
				"· "· "	10, 20, 22, 23, 25,	•		-	36 120 315 76 617 30	48 00 89 00 08 00
				"· "· "	10, 20, 22, 23, 25,	•		-	36 120 315 76 617	48 00 89 00 08 00
				"· "· "	10, 20, 22, 23, 25, 26.			-	36 120 315 76 617 30	48 00 89 00 08 00
    	    		   		10, 20, 22, 23, 25, 26.			- - - •	36 120 315 76 617 30 \$13,362	48 00 89 00 08 00 83
    	     otal,		   		10, 20, 22, 23, 25, 26.			- - - •	36 120 315 76 617 30	48 00 89 00 08 00 83
To	otal,				10, 20, 22, 23, 25, 26, utract.	treets	east		36 120 315 76 617 30 \$13,362	48 00 89 00 08 00 83
	otal, ning a	   	         54-100		10, 20, 22, 23, 25, 26, utract.	treets	east		36 120 315 76 617 30 \$13,362	48 00 89 00 08 00 83
			       54-100	    the pa	10, 20, 22, 23, 25, 26. ved s	treets	east	- - - : of	36 120 315 76 617 30 \$13,362 the Cu	48 00 89 00 08 00 83

						COMMIS		•	113
						streets			
								- \$172	04
						iles of			
									5 5 1
						streets	cleaned	ł	
			-			-			64
				00 mile	s of	streets	cleaned	1	
			-	-	-	-			33
Extra	Work	, as pe	r Estin	nate No	o <b>.</b> 4.	-	٠	77	44
Т	otal,	-	-	-	-	, -		\$1,313	33
Clea	ning :	and re	nairing	the :	stre	ets wes	t of th	e Cuyah	വാദ
River:			.1	,				· Ouywa	
		sta 9	739 10	00 mil	ou	f paved	atmas.		
		at \$20				i paveu			06
						of pavec			00
		at \$20				n pavec			36
						f paved			,,0
		at \$20				i paved			32
						reets cle			. 02
						-			41
						of paved			• • •
						-			40
						reets cle			
	17 00			_					78
-						paved			,
						paren -			00
						unpavec			,
						-			24
Extra	Work	as per	Estima	ate No.	ı,		•		59
**	44				٠,	_			82
••	••				3,				65
		••	••		4,				65
	••	••			5,	-			51
••	••				6,			83	
T	otal.			_		_		S 1,898	
							•	1,000	JJ

•

Ciomining 6	ınd re	pairing	the un	paved s	streets	east of	the Cu	ya-
hoga river:		-		-				
First Estima	te—1.	.780 cub	ic vard	s of ear	rth filli	ing at		
20 cents							356	00
Second Estin		-869 cul	ic vard	ls of sa	nd fill	ing at		
20 cents		•	-		•		173	80
And 131 chb	ic var	rds cinde	er at 20	cents,			39	30
Third Estima	•				inder	at 30		
cents -		-	-	•	•	-	180	60
And 530 yar	ds ef	earth fil	ling at	18 cen	ts.	-	95	40
Fourth Estin			•			eaned		
at \$20 0	0,	-	•	-		-	27	74
Extra repair	s on s	treets,	-	-		-	272	17
Fifth Estima	te—6	5 cubic	vards	of ci	nder a	at 30		
cents -	•	-	•	-		-	19	50
And 44 cubi	c yar	ls of bro	ken ste	one at (	50 cen	ts.	26	40
Sixth Estima	ite—1	,021 <u>‡</u> ci	ibic ya	rds of	cinder	at 30		
cents -		-	•	-	-		306	38
Extra repair	s on s	treets		-		-	7	13
Total -		-	•	•	•	\$	1,504	42
W A	RKET							
		GROUNDS	CLEAN	ING UN	DKR: CO	NTRACT		
•		GROUNDS			DER: CO	NTRACT.		
•			CLEAN		DER: CO	NTRACT.		
January, Est		(	Old Cor		DER CO	NTRACT.	<b>\$68</b>	54
January, Est		(	Old Cor		DER CO	NTRACT.		54 54
-	imate	s 6 and	Old ('or . 7 l 9		- - -	NTRACT.	68	
February,	imate	es 6 and 8 and	Old Con 7 1-9		- - -	NTRACT.	68 68	54
February, March,	imate	es 6 and 8 and 10 and	Old Cor . 7 ! 9 . 11		- - - -	NTRACT.	68 68 68	54 54
February, March, April,	imate '' ''	s 6 and 8 and 10 and	Old Con 7 1 9 11 13 15			NTRACT.	68 68 68	54 54 53
February, March, April, May,	imate  	es 6 and 8 and 10 and 12 and	Old Con 7 1 9 11 13 115			NTRACT.	68 68 68 68	54 54 53 54
February, March, April, May, June.	imate   	es 6 and 8 and 10 and 12 and 14 and	Old Cor 7 1 9 11 113 115 117			NTRACT.	68 68 68 68	54 54 53 54 54 54
February, March, April, May, June, July.	imate	8 and 8 and 10 and 12 and 14 and 16 and	Old Cor 7 1 9 111 13 1 15 1 17 1 19			NTRACT.	68 68 68 68 68 102	54 54 53 54 54 54

REPORT OF THE STREET COMMISSIONER.		115
New Contract,		
November, Estimates 1, 2 and 3 -	72	17
December, " 4 and 5	48	12
<del>-</del>		
Total \$	938	94
CATCH BASIN CLEANING UNDER CONTRACT.		
Old Contract.		
January, \$	231	24
February,	231	23
March,	346	90
April,	231	25
May,	231	23
June,	231	24
July,	231	<b>25</b>
August,	680	26
New Contract.		•
November,	207	60
December,	69	20
Total, \$2	,691	40
CATCH BASINS.		
The Catch Basins rapaired during the year and the i	tems	of
cost are given below:		
Broadway	\$4	50
Buell Street	1	56
Bridge Street at Root Street	3	00
Birch Street	9	50
Barber Avenue at Columbus Street	5	15
Columbus Street	3	00
Cedar Street at Blair Street	10	45

Columbus Street at Walworth Run Bridge

Canfield Street

4 75

2 87

Cedar Avenue		-		-		144	49
Dodge Street	-					2	88
Dodge Street at Superior Street -		-		-		3	88
Dodge Street at Huntington Street	-		-		-	12	00
Elm Street at Willow Street		-		-		6	00
Elm Street at Spruce Street -	-		•		-	18	00
Euclid Avenue		•				5	88
Euclid Avenue at Mayfield Street	-		-		-	3	00
Euclid Avenue at Walter Street		-		-		3	00
Euclid Avenue at Wade Park	-		-		-	3	12
Euclid Avenue at Doan Street .						3	13
Euclid Avenue at Kennard Street	-				-	6	25
Euclid Avenue at Case Avenue -		-		-		4	69
Euclid Avenue opposite No. 759	-				-	1	56
Euclid Avenue at Perry Street -		-		-		1	56
Euclid Avenue opposite No. 686	-				-	7	81
Front Street at River Street -		-		-		9	95
Front Street at Meadow Street			-		-	12	50
Front Street at Spring Street -		-		-		6	<b>25</b>
Front Street					-	11	63
Forest Street at Woodland Avenue		-		-		6	00
Forest Street at Croton Street -	-		-		-	6	80
Forest Street at Concord Street -		-		•		4	50
Frankfort Street	-				-	6	75
Garden Street at Calvert Street -		-		-		9	00
Hamilton Street at Lawrence Street	-		-		-	4	49
Hamilton Street at Alabama Street		-		-		3	01
Hicks Street at Bridge Street	-		-		-	g	00
Irving Street		-		-		2	88
Jefferson Street	-		-		-	5	00
Lorain Street at No. 242		-		-			00
Lorain Street at Waverly Street	-		-		-	16	3 08
Lake Street at Canfield Street -		-		-		•	7 81
Lake Street at Briggs Street -	-		-		-	(	3 25
Mill Street		-		-			87
Mulharry Street at Spruce Street			-		_	9	9 00

REPORT OF THE STREET CO	MMI	8810	NE	R.	1	17
Muirson Street at Chestnut Street -				-	3	00
Muirson Street at St. Clair Street			-		- 5	60
Main Street at Mulberry Street		-		-	6	00
Ontario Street at Public Square	-		-		. 4	01
Perry Street at Superior Street -		-		-	7	50
Pear Street at Munroe Street			-		- 6	00
Pear Street at Freeman Street -	•			-	6	00
Pearl Street at Franklin Street			-		. 6	00
Pearl Street				-	2	87
Pearl Street at Church Street -	-		-		- 3	00
Pearl Street at Carroll Street -		-			15	00
Rockwell Street at Wood Street			-		. 7	75
Superior Street at Wason Street -					13	49
Superior Street at Dodge Street	-		-		- 9	26
Sterling Avenue		-		-	6	00
Seneca Street	-		-		- 2	13
St. Clair Street					4	50
Superior Street at Water Street	-		-		. 3	05
Superior Street at Sterling Avenue				-	9	38
Superior Street at South Water Stree	t		-		- 6	25
St. Clair Street at Sterling Avenue		-		-	10	93
St. Clair Street opposite No. 450	-		-		- 3	13
St. Clair Street opposite No. 449				-	3	13
St. Clair Street at Dodge Street	-		-		. 18	75
St. Clair Street at Canfield Street -				-	24	75
St. Clair Street at Minnesota Street	-		-		- 16	65
Sheriff Street at Prospect Street -		-		-	6	85
Tod Street near A. & G. W. R. R.	-		-		- 3	00
Water Street at Johnson Street -		-			7	81
Water Street at Mandrake Street	-		-		- 6	25
Wood Street near St. Clair Street		-		-	7	00
Waverly Street at Bridge Street	-		-		- 31	13
York Street		-		-	3	15
Not Stated	•		-		- 109	50
Total				_	<b>\$</b> 793	62

#### SEWERS.

The cost of repairing and cleaning sewers under the	direction
of this Department, was as follows:	
Bolivar Street, at No. 32,	\$ 13 90
Cedar Avenue near Perry Street,	21 15
Forest Street at Concord Street,	67 68
Herman Street at Gordon Street,	27 75
Lighthouse Street Hill,	157 00
Merwin Street,	14 37
Merwin Street at Center Street,	163 90
Mulberry Street,	278 97
Putnam Street near Gordon Street,	43 65
River Street at St. Clair Street,	98 80
St. Clair Street near Dodge Street,	19 50
Water Street at Superior Street,	12 25
•	
Total,	\$918 92
FLUSHING SEWERS.	
Ash Alley at Prospect Street,	\$ 22 75
	\$ 22 75
Ash Alley at Prospect Street,	\$ 22 75 26 00
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,	* **
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,	26 00
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,	26 00 37 69
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,  Birch Street at Franklin Street,	26 00 37 69 19 50
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,  Birch Street at Franklin Street,  Bank Street at Superior Street,	26 00 37 69 19 50 16 25
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,  Birch Street at Franklin Street,  Bank Street at Superior Street,  Chestnut Street,	26 00 37 69 19 50 16 25 4 25
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,  Birch Street at Franklin Street,  Bank Street at Superior Street,  Chestnut Street,  Canal Street,	26 00 37 69 19 50 16 25 4 25 11 50
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,  Birch Street at Franklin Street,  Bank Street at Superior Street,  Chestnut Street,  Canal Street,  Cedar Avenue,	26 00 37 69 19 50 16 25 4 25 11 50 45 50
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,  Birch Street at Franklin Street,  Bank Street at Superior Street,  Chestnut Street,  Canal Street,  Cedar Avenue,  Champlain Street,	26 00 37 69 19 50 16 25 4 23 11 50 45 50 6 50
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,  Birch Street at Franklin Street,  Bank Street at Superior Street,  Chestnut Street,  Canal Street,  Cedar Avenue,  Champlain Street,  Cheshire Street,	26 00 37 69 19 50 16 25 4 25 11 50 45 50 6 50 3 26
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,  Birch Street at Franklin Street,  Bank Street at Superior Street,  Chestnut Street,  Canal Street,  Cedar Avenue,  Champlain Street,  Cheshire Street,  Cheshire Street,  Eagle Street Hill,	26 00 37 69 19 50 16 25 4 25 11 50 45 50 6 50 3 26 2 25
Ash Alley at Prospect Street,  Alley between Euclid Avenue and Prospect Street,  Running from Perry to Huntington Street,  Birch Street,  Birch Street at Franklin Street,  Bank Street at Superior Street,  Chestnut Street,  Canal Street,  Cedar Avenue,  Champlain Street,  Cheshire Street,  Cheshire Street,  Eagle Street Hill,  Euclid Avenue,	26 00 37 69 19 50 16 25 4 25 11 50 45 50 6 50 3 26 2 25 38 00

REPORT	OF	THE	STRE	ET C	юмм	1881	ONE	R.	1	19
Huntington Street.			-					-	4	00
Hamilton Street,		-			-		-		6	50
High Street at Mide	lle s	Street	t.					-	13	00
Lake Street			:		-		-		6	50
Long Street.	_		-	-	•	-		-	3	26
Mulberry Street,			-		-		-		72	81
Mulberry Street at	Old	Rive	r Str	eet,		-		-	165	75
Merwin Street, -		-	-		-		-		1	25
Prospect Street,				-		-		-	78	01
Public Square, -		-	-		-		-		26	00
Rockwell Street,	-		-	-	,	-		•	13	00
St. Clair Street, -		-			-		•		31	39
Spruce Street,	-		-	-		-		-	19	50
Superior Street,		-			-				326	00
Seneca Street.	-		-	-		-		-	6	50
Scoville Avenue,		-	-		-		-		58	<b>50</b>
Walnut Street,	-		-	-		-		-	6	50
Wood Street, -		-	-				-		13	00
Water Street,	-	,	-	•		-		-	19	51
Woodland Avenue,		-	-				•		6	50
Total, .	•			-		•		-	\$811	94
		I.U.M.B	ER A	COUN	NT.					
The purposes for are principally for of bridges and repa	culv	erts a	and d	rains	s, she	ath	ing	the	roadv	vay
poses during the ye	ar v	was a	s folle	ows:						
Lumber for culve								- {	31,321	57
Lumber for bridge		-	-		-		-		1,103	
Blocks for repairs of	on p	aved	stree	ts,		-		-	736	00
Measuring lumber,	, -	-	-		-		-		13	82
Total -	-	-		-		-		- \$	33,174	54

#### CULVERT REPAIRS.

The cost of work done in this Department in building, repairing and cleaning culverts and drains in 1878 and the points at which it was performed are as follows:

an with it was t	,		•	•••								
Bradford Street,		-			•	-				- 1	\$87	69
Cliff Street,			-				-				2	87
Clark Avenue,				-		-		-		-	15	25
Croton Street,			-		-		-		-		5	75
Carr Street				-		-				-	14	00
Eagle Street,	-		-		-		-		-		3	50
East Prospect Str	eet,	-		-				-			20	12
Grand Avenue,	-		·	•	-		-		-	٠.	4	50
Harvard Street a	t Va	nd	yke	Str	eet,	-					95	00
Independence St	treet,				-						30	75
Merwin Street,		-		-				-		-	2	88
Payne Avenue.	-		-		-		-		-		4	50
Petrie Street,				-				-			3	50
Quincy Street,			-						-		7	00
Union Street,		-		-		-		-		-	11	25
Superior Street.	-		-				•		-		51	00
Total -						_					8359	 56

#### BRIDGES.

The following statement shows the amount expended on account of bridge repairs under direction of the Street Commissioner:

Canal Bridge,		-	-		-	823	63
Center Street Bridge.	-		-			66	69
Columbus Street Bridge.		-	-		-	84	50
Eagle Street Bridge	-					8	00
Jefferson Street Bridge.		-	-	•	-	69	25
Lower Central Way Bridge,						16	13
Main Street Bridge, -		-		-	-	55	87
Seneca Street Bridge	-		-	-		72	11

REPORT	OF	тне	SI	'RE	ET (	OM:	MISS	SION	ER.	;	121
South Water Street	Br	idge,			-		_			32	13
Upper Central Wa										30	00
Walworth Run Brid			_				-		-	32	37
Willow Street Bridge				_		-					38
Winslow Street Brid		,	-		-		-				25
Total, -	-		-		-		-		-	<b>\$</b> 576	31
		CR	oss	WAL	.ks.						
The following stat	en	ent s	sho	ws	the	cros	sswa	lks	laid	$\mathbf{and}$	re-
paired during 1878	and	l the	cos	it:							
Alabama Street,			_		_		_		_	<b>\$</b> 3	37
Bridge Street,		_			-	_	-	_	-	10	85
Barber Avenue,	-		_		_	-		•	_	12	25
Buhrer Street at Jen	nir	nøs.		_		_		_	-	9	90
Branch Street Jenni			_				_	_	_	18	70
Bond Street at Sumi			et.	_		_			•	15	•
Bank Street at Lake			,		_					,	00
Croton Street, -		-								• • •	87
Columbus Street,										$_2$	13
Chatham Street,		_		_						_	00
Clifton Street,			_		-				_	_	13
Church Street, -		_		-						2	87
Cedar Avenue,	_		-				-		-	_	62
Columbus Street at 1	Bra	inaro	1 8	tree	et,	-				24	
Clark Avenue at Jen							_		-	18	70
Castle Street at Jenn					•	-				18	70
Dodge Street,	<u>.</u>		-	•			-			2	12
Detroit Street, -		•						-		2	88
Erie Street at Summi	t S	Street	·,				-			1.5	18
Franklin Street Hill,			-	-				-		15	20
Forest Street,	-		-		-					2	88
Hamilton Street,		-		•				-		3	7.5
Franklin Street.	-				-		-		-	3	7.5
Jersey Street, .		-		-		-		-		2	13

Jersey Street at Jennings Avenue,	-		- 1		18 70	}
John Street at Harbor Street.	-	-		-	21 - 00	)
Literary Street,	-		-		2 87	ĺ
Mayflower Street,	-	-		-	2 25	j
Merwin Street at Central Street.	-		-		8 40	)
Mill Street at York Street, -	-	-		-	9 45	,
Orange Street,	-		-		15 01	1
Ontario Street,	-	-		-	15 00	)
Ontario Street at Summit Street,	-		-		16 17	î
Payne Avenue at Muirson Street,	-	-		-	36 67	i
Payne Avenue at Case Avenue,	-		-		39 60	)
Public Square at Superior Street,	•	-		-	115 - 29	)
Quincey Street,	-		-		5 50	)
Rockwell Street,	-	-		-	7 00	)
Rowley Street,	-		-		9 90	)
Sheriff Street at Huron Street.	-	-		-	8 00	0
Starkweather Avenue,	-		-		18 70	)
Scott Street,	-	-		-	1 93	3
Scranton Avenue,	-		-		5 1:	3
Superior Street,	-			-	2 87	ĩ
State Street,	•-		-		40 37	7
Taylor Street at Clinton Street.	-	-		-	6 80	)
Vermont Street at State Street,	-		-		15 60	()
West River Street,	•	-		-	1 38	4
Walworth Run Bridge,	-		•		28 4-	ŧ
Willey Street	-	-		-	18 76	0
Wood Street at Summit Street, -	-		-		13 80	Б
York Street at Jay Street, -	-	-		-	17 60	n
York Street at Vestry Street, -			-		23 90	()
Not stated,	-	-		-	5 70	6
Materials for crosswalks, -	-		-		152 00	H
						-
Total	-		-		8920 9	5

Repairing paved s	stre	ets.			-		-		-	1.892	13
Market Grounds o	lea	ning	,	-		-		-		938	94
Catch Basins,	-		-		-		-			793	62
Catch Basin clean	ing	und	er e	contr	act.	-		•		2,691	40
Sewers, -	-		•		-		-		-	1,730	86
Lumber, -		-		-		-		-		3,174	54
Culverts, -	-		-		-		-		-	359	56
Bridges, -		-		-		-		-		576	31
Crosswalks,	-				-		-		-	920	95
Salaries of Officers	4,	-		٠.		-		-		6,789	66
Miscellaneous,	-		-		-		-		-	1,910	43
Total, -						_				\$46,464	24
	Re	spec	tfu	lly s	ubn	iitte	d.				

### JACOB BITTEL,

Street Commissioner.

## ANNUAL REPORT

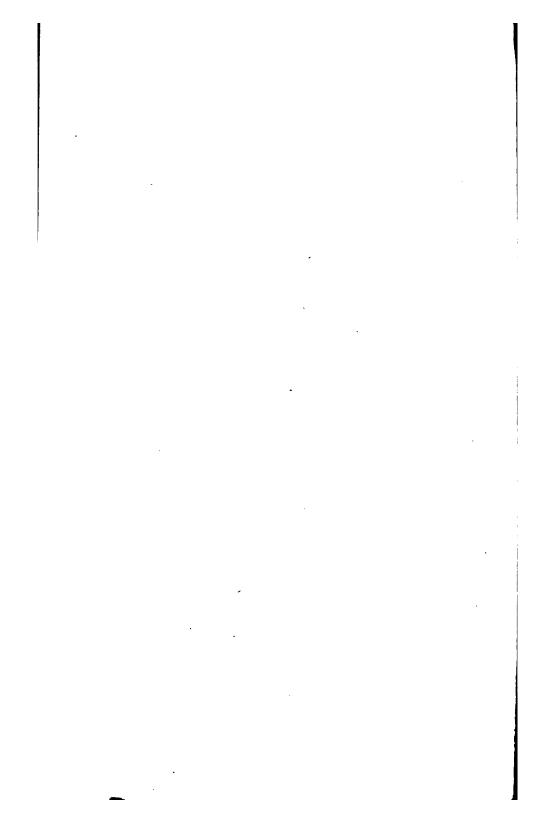
OF THE

# CITY AUDITOR,

OF THE

CITY OF CLEVELAND,

FOR THE FISCAL YEAR ENDING DEC. 31, 1878.



# CITY AUDITOR'S REPORT.

CLEVELAND, O., FEBRUARY 24, 1879.

To the Honorable City Council:

GENTLEMEN:—As required by Section 15, chapter 3, of the Codified Ordinances of 1877, I herewith submit the Annual Report of the finances of the City of Cleveland for 1878, embracing statements showing as follows:

- 1. A general exhibit.—Table No. 1.
- 2. An analysis of the resources and disbursements of the general funds for 1878.—Table No. 2.
- 2. The condition of all funds and accounts, January 1, 1879.—Table No. 3.
- 4. The amount and maturity of all bonds issued in 1878.—Table No. 4.
- 5. The amount and maturity of general bonds outstanding January 1, 1879.—Table No. 5.
- 6. The amount and maturity of street improvement bonds issued in 1878.—Table No. 6.
- 7. The amount and maturity of street improvement bonds outstanding January 1, 1879.—Table No. 7.
- 8. The amount and maturity of street damage bonds issued in 1878.—Table No. 8.
- 9. The amount and maturity of street damage bonds outstanding January 1, 1879.—Table No. 9.
- 10. The amount and maturity of sewer bonds issued in 1878.—Table No. 10.
- 11. The amount and maturity of sewer bonds outstanding January 1, 1879.—Table No. 11.
- 12. Recapitulation of bonds outstanding January 1, 1879.—Table No. 12.
- 13. A statement of certified estimates unpaid January 1, 1879.—Table No. 13.
- 14. Principal and interest of all bonds maturing in each month of 1879.—Table No. 14.

TABLE NO. 2.—Continued.

Balance ('ash on hand January I, 1878.  Balance ('ash on hand January I, 1878.  Cush Deposits by Secretary  Cordinary Expenses.  Sand Tanger from Market Fund  Reimbursement from special assessments  Receipts from Market Fund  Reimbursement from special assessments  Receipts from Hay Scales, Licenses, etc.  Ordinary Expenses  Cordinary Expenses  Cordinary Expenses  Cordinary Expenses  Balance ('ash on hand January I, 1878.  Balance ('ash on ha	26 26 70 10 10 10 10 10 10 10 10 10 10 10 10 10	159,970 44		- 18 105,055 70 334 717 90 98 - \$ 182,076 97 90 94 73	8 87 88
Balance ('ash on hand January 1, 1878.  (Taxes  ('taxes  ('taxes  ('taxes  ('train are Expenses.  ('train are Expenses.  ('train are Expenses.  ('train are Expenses.  ('train and other rents collected  ('try Hail and other rents collected  ('try Are are Expenses  ('collected taxes  ('collected taxes  ('collected taxes  ('sollected tax	8 38,485 154,332 1400	148,714 94 1,470 70 11,784 80	25, 25, 25, 25, 25, 25, 25, 25, 25, 25,	116,470 51 2,370 34 2,770 34 2,178 17 2,104 28 2,133 15	\$ 24,047 58 106,226 74 10,000 00 474 09
E DEPART Resources - Disburseme Besources Deburseme Resources.	TMENT.  Balance ('seh on hand January 1, 1878.  Taxes ('ush Deposits by Secretary	Disbursementa Ordinary Expenses. Special Traxes Bills of 1877 paid in 1878.	(ieneral Fund.  Resources—— Threes—— Threes—— Threes———————————————————————————————————	Disbursements - Ordinary Expenses. Payment of special taxes. Costs of Court. Damages by order of City Council. Temporary Payments Hills of 1877 paid in 1878.	FUND.  Recourse— Rainnee (ush on hand January 1, 1878.  Taxes— Transfor from Market Fund Thanfor from Market Fund Amount paid by A. & G. W. Ry. Co. for lighting crossings.  Amount paid for broken glass in lamp.

Dirbitremente	Disbursements Aprilliary Experiess.  New lamp-posts and lancerns.  Bills of 1877 paid in 1878.	11,285 66 12,285 66 12,285 66	181,304 19	57 77 2 27 2
House of Correction.	FFTION.		-	
Redurcer -	Bahmee Cash on hand Jamuary I, 1878 From County -for care of prisoners, etc. Cash deposits by Superintendent.	8. 125.25 25.75 25		
Disdursements	Ordinary Expenses. Permanent Improvements. Bills of 1877 puld in 1878.	104,355 21 5,400 11 19,058 56	** 18 % TI	5,974 29
INTEREST PUND.				
Renostries -	Balance Cash on hand January 1, 1878 Thaves. From Watter Works Fund. Accrucal Interval on General Bonds issued 1878. From A. & G. W. Ry. Co. acct. West River Street	\$ 45,670 65 408,878 75 35,000 00 8,885 90 4,883 38	-	
Diaburaementa	Disbursementa - Payment of Interest on General Bonds	417,237 24	11, 25, 754, 114 111,257 24	×1,519 38
INFIRMARY FUND.	ď		-	
Resources .	Theory. From County—for board of paupers, etc. Receipts from Liernses, etc.	\$ 70,151 17 5,101 10 8,363 73	-	
Dhobursements	Balance overdrawn January 1, 1878. Permanent Improvements Ordinary Expenses of 1878. Bills of 1877 paid in 1878.	4,011 54 1,491 45 49,197 39 9,284 89	8 65,010 (II).	
		Į	and and	19.630 83

TABLE NO. 2.—Continued.

1

Bal. Cash on hand Jan. 1, 1879.		3 8 88 •• •• ••		8 8 8 8	
Т	15 99 93	150,970		\$ 168,688 70 \$ 182,076 97	\$ 139,748 98
	\$ 36,865 91 154,332 56 2,400 70	146,714 94 1,470 70 11,784 80	8. 24.982 85.075 85.075 85.000 8,000 8,000 8,000 116.24 18.327 18.327	116,470 51 3,370 34 2,736 71 866 00 9,104 28 6,723 15	\$ 24,047 105,228 10,000 474 28
	TMENT.  - Balance (ash on hand January 1, 1878.  Taxes  (ush Deposits by Secretary.	enta Ordinary Expenses. Special Trace Bills of Err paid in 1878.	Y.D.  Balance ('ash on hand January 1, 1878  Taxes  Thangfor from Market Fund  City Hall and other routs collected.  Reimbursement from special usessaments  Roceipts from Hay Scales, Licenses, etc.	Disbursements - Ordinary Expenses Payment of special taxes  " (vets of Court. " Dannages by order of City Council Temporary Payments Hils of 187 paid in 1878	Halance (lash on hand January 1, 1878.  Thatest Transfer from Market Fund Amount paid by A. & G. W. Ry. Co. for lighting crossings.  Amount paid for broken glass in lamp.
•	FIRE DRPARTMENT  Renoutces - B T	<b>Di</b> abursements	(†ENRIAL FUND Resources –	Disburseme	GAB FUND. Resources—

Diebursements	Disdursements—Ordinary Exprenses New lamp-posts and lanterns Hills of 1877 paid in 1878.	105,690 04 3,235 66 22,378 40	131,30H 19	:
House of Correction.	NOTE AS	1	Ī	##
Resources-	Bahnce Cush on hand January I, 1878. Taxes From County—for eare of prisoners, 6tc Cash deposits by Superintedent.	8 25 25 25 25 25 25 25 25 25 25 25 25 25	- 1	
Disbursements	Disbursments - Ordinary Expenses	108,385 21 5,400 11 19,088 56	88 E18,251	5,974 29
INTEREST FUND.				
Resources	Balance (ash on hand January I, 1878 Taxes From Water Works Fund Accrued Interest on General Bonds issued 1878. From A. & G. W. Ry. Co. acct. West River Street	\$ 45,670 CO 35,670 CO 35,670 CO 35,885 GO 45,885 GO 4,885 GO 4,885 GO		
Disbursements	Disbursements - Payment of Interest on General Bonds	417.877 34 45 T.8.7714	417,237 24	क्ष हाद, १४
INPIRMARY FUND.	ND,			
Пемонгсем —	Taxes. From County—for board of paupers, etc. Receipts from Licenses, etc.	\$ 70,151 17 5,101 10 8,363 73	· · · · · · · · · · · · · · · · · · ·	
Distriction	s—Balance overtrawn, January I, 1878 Permanent Improvements Ordinary Expenses of 1878 (2015 of 1877 paid in 1878	4,011 1,491 15,197 25,187 28,488	68.585 17	
				19,630 83

TABLE NO. 2.—Continued.

				Jan. 1, 1879.
MARKET FUND.				•
Resources -	Balance Cash on hand January 1, 1878 Market Rents and Premiums.	\$ 111.271 51 23,052 70	30	
Disbursements	Distursements — Ordinary Expenses Transferred to General Fund. Special Taxes paid in 1878. fills of 1877 paid in 1878.	7,880 86,000 10,000 1,475 1,475 1,475 1,475	108,219 43	
POLICE COURT FUND.	Fun.	_'		<b>\$</b> 26,104 78
Resources -	Balance Cush on hand January 1, 1878 Fines, etc., deposited by Police Clork	\$ 1,823 55 9,234 36		
Dishursements	Disbursements Ordinary Expenses. Bills of 1877 paid in 1878.	8,606 90 775 13	9,382 03	\$ 1.676 38
PARK FUND.		_		
Resources	Balance (ash on hand January 1, 1878 Taxes Warrants not used	\$ 13,098 60 3,507 56 167 25		
Dhedursements	Diedurwments — Ordinary Expenses Permanent Improvements. Bills of 1877 paid in 1878.	6,008 57 454 78 184 72	# 16,773 +1	
			D 889 U	\$ 10,130 34

9 170 071 9		8 288 21 8		28 84 98 98		52
201 202 203 203 203 203 203 203 203 203 203	2,400 00	\$ 4,029 44 168,362 79	160,000 00	\$ 14,467 37 63,138 69 575 60 5,000 60 2,244 61 285 99	47,234 49 16,186 55 8,768 54	
Taxee Pacial Tax—Sanitary (ash Deposits by Secretary Board of Health Warrants not used	Disbursements—Ordinary Expenses. Bills of ferr paid in 1878.	Sinking Fund.  Resources — Balance Cush on hand Junuary 1, 1878.  Thacks.	Disbursements—Payment of General Bonds.	Striket Differentials.  Resources — Railnice (ash on hand January 1, 1879.  Taxes Rent collected for lot on Michigan Street.  Dog Tax ('allections account Street Repairs.  Amount retained on Warrant No. 2294.	Disbursements—Ordinary Expenses Repairs of Paved Streets. Bills of 1877 paid in 1878	Total (ush Credit to above Funda January 1, 1879.

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WORKS	TRE WORKS DEPARTMENT.		
Resources .	Ralance Cash on hand January 1, 1878  Cash Deposits by Secretary	\$ 55,101 165,008	100 000
hursement	Disbursments-Plpe Extension	27,257 58	38.
	General Repairs	5,878 33	
	Office and General Expenses.	<u> 51</u>	
	Engine House Repairs		
	Water Meters		
	Interest		
	Construction	× 2500 ×	
	Crib Superstructure	16,612 36	
	('rib Protection		
	New Boilers	IX XX XI	
	Crib Repairs	15,619 37	•
	Engine House Expense	27,833 06	
	Transfer to Interest Fund	35,000 00	

STATEMENT OF THE CONDITION OF THE VARIOUS FUNDS OF THE CITY OF CLEVELAND ON THE PIRST DAY OF JANFARY 1879 TABLE No. 3.

	Cash on Hand Jan. 1, 1879.	51 73	4,148		2,589 97	4,843 61	<u> </u>		100 00
	Amount Overdrawn January 1, 1879.	\$ 141 99 409 46 287 14	602 88 2,041 14 542 44 88 82	5,87% 16,917		60	691 40 102 30 826 70	388	
	Am't Due from Street Railroad Companies.			85,088 57				:	
	Disburs'm'ts Receipts for for the Your 1878. Your 1878.	••	8,879 1.887 6,524 6,881	410	41,670 51		2,838 05 866 45		
, 1879.	Disburs'm'ts for the Year 1878.	312 48 312 48 312 48 312 48	2,58,58,58,58,58,58,58,58,58,58,58,58,58,	83,018 99	88,856 86	6,484 02	4,987 67 1,589 00		109 09
OF JANUARY, 1879.	Balance Credit Janu'ry 1, 1878.	230 19							109 09
AY OF	Balance Dobit anu'ry 1, 1878.	8,989 8,980 7.7	2,00% 2,00%	6,2882 63 2,584 96	5,728 69	712 53 487 16	615 66 851 35 49 03 886 70	285 60	
Α .									
FIRST	Am't of Cer- tifled Esti- mates Out- standi'g Jan. I, 1879.				8	3			
FIRST DAY	Amount of Bronds Officer of Straight of Certain of Cert	Atlantic Street Grading and Culverts \$ 4,400 00 Atlantic Street Opening 11,700 00		156,500 00	35,600 00	3	2,900 00 2,500 00		

TABLE No. 3.—Continued

Cash on Hand Jan. 1, 1879.	8,000 O7 5,296 49 118 64	848 46	2528 <b>64</b> 108 10		2,701 65 5 80	578 91		1,560 94
Amounts Overdrawn Jan. 1, 1879.		247 30 1,248 53	711 41	797 10 1.657 20 1,029 20		15 42 86 05	488 98 582 97 831 68	: :
Am'nts Due from Street Rallroad Companies.				<b>~</b> ~~		m io -		
Receipts for the Year 1878.	\$ 630 301,850 26,067	4,986 57 1,508 09	802 87	58,180 1,563 1,046	18,138 85 1,849 83 1,926 82 1,926 82	312 58 3,534 60 6,985 11	8,767 73 <b>26</b> 0 89	7,628 70
Disbursm'ts for the Year 1878.	\$ 641 08 500,001 00 88,857 71 80 00	2,144 14	1,914 78 110 54 1,799 31	86,790 07	14,905 00 1,877 78 1,878 83 8,816 09	2,909 52 2,909 52 30,909 52	8,020 51	7,186 15 876 00
Balance Credit Janu'ry 1, 1879.	201,150 00 17,599 06 188 64	8	2,167 42 218 64 881 98 460 81		1,362 81	74.76	88.' <sub>7</sub>	18 87
Balance Debit Janu'ry 1, 1878		1,084 65 8,859 35 1,210 53		17,187 61 8,219 58 2,076 16	252 112 263 263 263 263 263 263 263 263 263 26	711 18	917 64	
Am't of ('er- tifled Eatl- mates Out- standing standing Jan, I, 1879.								
Amount of Bonds Out- standing Jan. 1, 1879.	1,000 00	5,300 00 5,300 00 4,700 00		122,500 00	91,500 00 1,500 00 8,000 00	2,500 00 19,600 00		14,800 00 14,600 00
	Beils Payable Bills Payable Bridge Fund Brongon Alley Damages Bank Street Extension	banej Street Opania Sentey Alley Openia: Becker Avenue Damages	Courtland Street. Conter Street. Center Street. Central Way Branch Sewer	Columbus Street Improvement Champlain Street Paving, etc.	0 14	Joseph Street Grading, etc., Jedar Street Grading, etc., Perry to Willson Shestnut Ridge St. Macadamizing	commercial Street  bindied Street Sewer  sase Avenue Grading, etc.—  Buelld to Woodland	Bacild to Paving, etc.   Budld to Pavine Budld Avenue Macadamizing, etc.—Fairmount to Willson

5,726	81,685 87 8,811 76 8,810 90	_:_	204 72	1.105 58	111,279 92	08	960 87	7 80 70 583 70 4 098 87 1101 08	888	8,600 dz 8 817 65		1,989 42 943 84	1,018	48 19	9.469 77 904.00			98 30		621 94	1,206 10 175 18		30,956 78	90. 200
56,818	18,048 78 8,849 54	6.011 29	5,120 00	00 896	8,787 25	8	9,470 9,5,20 00	97 97 97 97 98	28	2,000 00	2.048 76	11,400 00		1 47 140 CO	8.927 00	8.487 12		2.745 8.745 8.00	4,560 55	11,00 a Oc	50°,1		132,076 97	131,804 18
9,518 26	1,581 82	4,889 09	15.989.99	142 53	3,906 78	88 89		.: 621	468 58	888 70 701 777	190 87	876 27	1,018 29	5,992 52	178 13	200		<b>3</b>	12,409 60		88 88	882 69	90,963 50	24,047 58
100,000 00	878,000 (0	1,800 00	12,000 00		00 000'08	:	8,400 00	1 400 00	00 00 00	7,500 00	8,000 00	10,000 00		6,587 56	27 000 00	46.000.00	:	6.100 00				6,660 00	Trongle on on the order	
Cuyahoga River Dredging—Above Upper Central Way Bridge	Cana Fond	Courtland Street Straightening	Central Way Bridge.	Avenue	Detroit Street - Kentucky to	Dillie Street	Doan Street	East Madison Avenue Opening	Erie Street	Enclid Avenue Macadamizing-	Fairmount to City Limits	Enclid Avenue Repaying-	Elm Street.	East Prospect Street-Grading, etc.	Erie Street Damages Euclid Avenue Faving- !	West of Erie Street Euclid Avenue Paving—	Fire Department,	Fairfield Street	Forest Street.	Franklin Circle Paving, etc	Fir Street Grading Damages	Fairmount Street	General Fund.	Gas Fund

TABLE No. 3—Continued.

Amounts Street frail Fra	\$ 12 81 \$ 8,000 00 00 00 00 00 00 00 00 00 00 00 00
Receipts for 1878.	27,515.80 to 27,51
Disburso- ments for 1878.	\$ 16.171 07 2,500 04 2,500 05 2,500 05 2,5
Balance Balance Debit Credit anu'ry 1, Janu'ry 1, 1879.	1,370 85 7,541 11 1,125 68 1,125 68 1,144 14 80 40 1,045 68 1,045 68 1,045 68 1,045 88 1,045 88 1,045 88 2,146 88 2,146 88 2,04 88 80 25 80
Amount of Bonds Outstand's Courstand's Courstand's Courstand's Corridade Estimates Courstand's Courstand C	8 8 8 9 0 0 0 0 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Am 1 1 0 0 0 1 5 0 0 1 1 1 1 1 1 1 1 1 1 1	Giddings Avenue Opening Garden Street Paving Garden Street Paving Garden Avenue Damages Grand Avenue Damages Grand Avenue Damages Garden Street Sower District Hurn Street Hurn Street Hamilton Street Harvard Street Garding Bamages Harvard Street Garding Damages Harvard Street Garding Damages Harvard Street Wadening Damages Harvard Street Wadening Damages Junction Street

3,010 66 4,47 88 104 24 38 45 38 45 38 45 38 45 38 45 38 45 31 37 38 45 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,223 19 682 20 734 10 119 119 119 119 119 119 119 119 119	41 41 689 689 690 689 689 689 689 689 689 689 689 689 689	0.0 5.894 05 484 96 8.942 23 44	2,386 01 5,896 60 1,489 11 6,643 07 3,674 81 10,189 11 1	600 4,881 90 577 5,048 75 883 1,645 88 7 77 14 7,848 75	00 188,482 73 12,488 00 188,482 79 12,888 01 134,082 47 3,507 86 71,087 66 18,289
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4,906 39 1,615 45 2,337 67 5,75 50	85.0% 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.000 1	6,711	2,431 (4.8 (4.8 (4.8 (4.8) (4.8) (4.8)	2, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13	
coin Avenue Opening. 4, 100 00 as Street Paving. 20,000 00 g Street Paving. 2,000 00 g Street Paving. 2,000 00 des Familiag, etc. 2,000 00 des Fund. 2,000 00	a Street.  2 Street.  2 Street.  2 Street Opening.  3 5547 18	arquette Street Opening, etc. 11,000 00 lies Street Opening, etc. 700 00 lies Street Opening, etc. 700 00 cMahon, John E. F. Street Opening, etc. 700 00 control Navement Fund. 700 00 control Street Paving, etc. 700 00 numb Street Paving, etc. 700 00	et Dannges. I Fund. Inneringes. Dannages.	erry Street 7,000 00  *ark Fund 315,000 00  *ark Fund Avona Damages 551,600 00  *utnam Street Grading, etc.  *erry Street Damages 500  **Thospect Street Reparing— 500,000 47,000		Ridge Street Sinking Fund Street Intersections School Construction Street Fund

TABLE No. 3—Continued.

Cash on Hand Jan. I, 1879.	1,896 58 3,342 10 86 73	88 EF	1,349 72 1,594 59 638 79	25 55 55 55 55 55 55 55 55 55 55 55 55 5	4.348 19 768 18 78 05
Amounts Overdrawn Jan. I, 1879.	28 72 10 12 10 12 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14		3,153,95		1,553 38 6,688 95 7,688 95 7,688 95 8,588 95 8,5
Amounts Due from Street Rail- road Com- panies.		144 87			
Receipts for 1878.	2, 25, 28 2, 25, 28 2, 25, 28 2, 25, 28 2, 28, 28, 28, 28 2, 28, 28, 28, 28, 28, 28, 28, 28, 28, 2	8,563 73 28,549 56	46,563 39 1,199 84 10,119 90 961 73	659 06 11,415 13 4,019 46 1,918 13 3,180 33 8,168 27	1,306 18 5,509 68 15,506 14 117 16 117 16 15,725 68 20 97 30 97
Disburse- ments for 1878.	36,287 79 12,452 00 7,176 00	8,471 00 28,738 08	19,280 00 6,030 00 125 00		2,337, 25,429, 20,537,
Balanco Credit Janu'ry 1, 1878.	1,936 58				2,861 13 1,246 17 4,719 30 13,877 49 12,218 36 1,707 08
Balance Debit Janu'ry 1, 1878.	8,183 9,435 8,835		25,953 4,353 79 2,495 379 20 33	2,524 2,927 1,926 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,936 1,937	251 95 251 951 12,879 75
Amount of ('ertified Estimates ()utstandi'g Jan. 1, 1879.	2,283 34	5			171 75
Amount of Bonds Outstand'g Jan. 1, 1879.	14,000 00 14,000 00	3,500 00	90 000 60 <del>1</del>	11,100 00 4,000 00 31,500 00 5,300 00	20,300 00 61,600 00 45,200 00 50,500 00
,	Rend Fund Road Ruler Rote t Opening Street Opening Street Pavine	Superior Street Repaying— Park to Eric Street Superior Street Damages Superior Street Paying. Superior Street—O Comnor	Street Damages. Street Chading, etc. Street Opening. Hey Diamages.	t. Paul Street Grading, etc. L. Paul Street Damages. Later Street Damages. Cones Leves ewer District 1 and 2, E. Cleveland uperior St. Sewer, R. of Doan Brook	: ;;;::::
	Steel & McMahon Special Road Fund Steam Hoad Roller Soneca Street Openin Soneca Street Paving.	Superior Str. Park to E. Superior Str. Str. Clair Str. Superior Str.	Road to 1 St. Clair Str Summit Str Summit Str Soyler Alley School Fund	St. Paul Street St. Paul Street Slater Street Di Stones Levee Sewer District Superior St. Sev	Sewer Distr

2,898 01 207 00 1,736 40 121 69 121 69	75 88 15 88	111,450 U 176,719 06 17 731 96 58 69 771 86		1,771 76	1,980 20	12 34 6,728 58	8
2,500 00 2,664 12 11,130 27 4,750 42	6,386 6,486 578 578 80 85 85 85	578,397,98 301 04 10,514 15	15,154 08 165,154 08 2,338 33 2,515 38	2,256 34 5,480 74	6,507 50 88 33	3,547 33 14,905 58 86 42	25,701 38,108 38,108
	6,296 63 5,888 08	556,513 48 807 54 75 00 77 9,080 77		3,930 00	2,238 62	3,501 45	28,696 96 3,121 06
		156,634 54 101 97 806 96	55,101 22		286 07	7,011 58	6,196 72 540 95
24 25 25 25 25 25 25 25 25 25 25 25 25 25	2 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	25.5% 25.5% 25.5%	50 0821 1020 1021 1200 1200 1200 1200 1200	E 8	172 54	33 SS S	
		<b>3</b>					
1,300 00 2,000 00 35,100 00 16,600 00	5,800 00 4,400 00	2.135,000 00 300 00 15,500 00	1,700,000 00	12,000 00 20,500 00	9,000 00	39,630 11	23,700 00 12,307 04
Sewer District No. 8	Scoville Avenue Grading, etc. Tod Street Grading, etc. University Street Grading, etc. and Extending	Visiditet Fund Visiditet Fund Vega Avenne Grading, etc Woddell Street. Wood Street Damages. Wadde Park Avenne Grading, etc	Warner Road Domages West River Street Wood Street Wood Street Windsor Avenue Sewer. Wildsor Avenue Damagee	Willson Avenue Damages— North of St. Clair Sfreet, Willson Avenue Damages— Sawtell to Broadway.	Willson Avenue Grading, etc. Julia to Maurice Willson Avenue Grading, etc. Maurice to Sawtell,	William Avenue Grading etc.— Fucili to Woodland, etc.— Euclid to Lake Erre, William Avenue Grading, etc.— William Avenue Grading, etc.—	Woodland Hills Avenue Grading, etc.

TABLE NO. 3.—Continued.

	Amount of Bonds Out- standing Jan. 1, 1879.	Am't of Cer- tifled Esti- mates Out- standi'g Jan. 1, 1879.	Balance Debit Janu'ry 1, 1878.	Balance Credit Janu'ry 1, 1878.	Disburs'm'ts for the Year 1878.	Disburs'm'ts Receipts for for the Tear 1878.	Am't Due from Street Railroad Companies.	Amount Overdrawn January I, 1879.	Cash on Hand Jan. 1, 1879.
ade Park Avenue Damuges arner Road Grading, etc., oodland Avenue— Mark et to Willson Ave.	21,000 00 4,700 00	21,000 00 4,700 00 3,000 00	78 887 30,382 33	8i 25	10,076 62 1,847 83 3,420 00	9,582 84 77 65 24,000 00	13,766 64	417 56	187 66
Willson to East Madison,	26,600 00	:	1,296 96		15,629 00	15,396 04	7,424 35	1,530 92	
East Madison to Woodland Hills	34,500 00	:	6,601 53		14,403 98	18,551 41		2,454 10	
drawn Accounts				:	:		:	\$237,967 85	:
ush on hand January 1, 1879								310,511 82 30,984 31 5,928 20	
	\$9,284,796 06	\$17,798 99	\$510,254 33	\$921,986 51	\$9,34,706 00 \$17,708 90 \$510,334 33 \$821,986 51 <b>\$4</b> ,241,246 11	\$4,176,886 28 \$70,735 02 \$585,310 18 \$685,310 18	\$70,736 02	\$585,310 18	\$585,310 18

\*See Recapitulations.

RECAPITULATION,

SHOWING AMOUNT OF CASH ON HAND JANUARY 1, 1878; RECEIPTS AND DISBURSEMENTS FOR 1878, AND CASH ON HAND JANUARY 1, 1879.

	\$685,310 18 337 027 25						00 040 470	00 710-1100
:		# 30.984 SI	5,926 20 310,511 82			-	† 	
	Total Credit Balances January 1, 1879	Litios to Delite (8.05.75 Balance Credit Water Works Denartment.	Bonds held by city as guarantee against decay of pavements Balance Cash in Treasury, exclusive of above				Polonic Cost on Lead London 14 1000	Detailed (see of hand, value) 134, 1019
			<b>3</b>	4,200,015 64	\$4,586,722 07		4,248,349 74	\$347,372 88
_	\$821,986 51	\$23,129 38 7,103 68	\$4,176,896 26	23,129 38	84.241.246 11	7,103 63		,
_	Total Credit Balances Jan. 1, 1879, se shown by Table No. 3	Total Debit Balances Jan. 1878, of 87 accounts closed during 1878 Total Credit Balances Jan. 1, 1879, of 85 accounts closed during 1879	Rajance Cash on hand Jan. 1, 1878. Receipte for 1878 to accounts shown in Table No. 8)	Receipts for 1878 to accounts closed during 1878.	Total of all resources. Total Disbursements from accounts shown in Table No. 3.	Total Disbursements from accounts closed during 1878.	Total of all Disbursements for 1878	Balance Cash on hand Jan. 1, 1879

\*\* RECAPITULATION,—Continued.

Heccipta for Disbursem ts aper Re- for 1878, as per aphilation on Recapitulatin preceding page.	\$4,200,015 64 . \$4,248,349 74	363,618 43	\$3,854,746 81
Receipts for Disbursem to left as per Re- for 1878, as per per Re- for 1878, as perceding on preceding page.		393,003 43	\$3,806,412 21
	65.000 See See See See See See See See See		
	Included in the above showing of Receipts and Disbursements for 1878 are the following transfers: From Market to General Fund. From Market to Gas Fund. From Street Intersection account to sandry Street Improvement accounts From Street Intersection accounts to General Fund (reimbursement) From sundry Street Improvement accounts to General Fund (reimbursement) From Water Works Department to Interest Fund From Water Works Department to Interest Fund From Water Works Department to Interest Fund From Unin Street Street Street Improvement accounts and waterals not used		Actual Cash Receipts for 1878, as per Table No. 1

## RECAPITULATION.

# SHOWING AMOUNT OF MATCRED BONDS NOT YET PRESENTED FOR PAYMENT.

\$6,678,000 00	1,086,800 00 586,100 00	\$9,284,100 00
Total Bonded Debt as shown by Table No. 13: Genoral Bonder Street Innovement Ronds.	Street Damage Bonds. Sewer Bonds	89.284,100 00 Total Bonded Debt January 1, 1879.
\$0,24,796 06	5=3; <del>22</del> 255 	89,284,100 00
Total Bonds Outstanding January 1, 1879, as per Table No. 5 Less Malured Bonds not yet presented for pay- vier issued account following imprevements, vier.	Breekville Food-Grading East Prosect Street Opening Miles Street-Grading Prospect Street - Taving Eswer Direct - Taving Sewer Direct No. 3 Wilson Avenue-Grading Euclid to Lake Erie Woodland Hills Avenue-Dauisges	Total Bonded Debt January 1, 1879

### RECAPITULATION,

## SHOWING THE TOTAL DEBT OF THE CITY OF CLEVELAND JANUARY 1, 1879.

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1890

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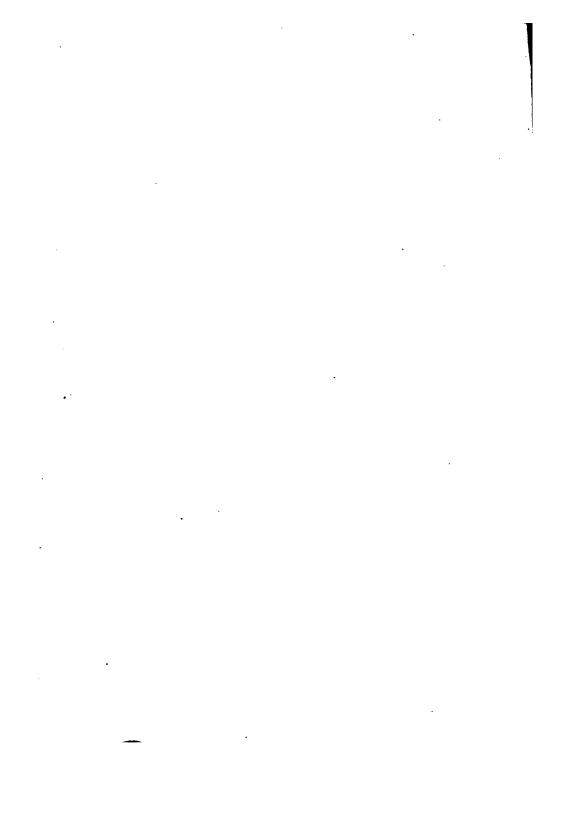
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STATEMENT OF ALL BONDS ISSUED BY THE CITY OF CLEVELAND IN 1878, SHOWING FOR WHAT PURPOSE, AND PROCEEDS OF SALE.

WRAT PURPOSE.	Improvement Authorized.	Amount of Issue in 1878.	Total Am't of Issue in 1878	Proceeds of Sale.	Total Proceeds of Sale.
Street Damages: Allen Street Opening	1872	\$ 4,700 00		\$ 4,858 69	
Bond Street Opening	1878	85,000 00		86,144 50	
Bailey Street Opening.	1873	1,000 00		1,089 70	
Central Place Opening	1872	15,500 00		16,006 85	
Courtland St. Straightening	1873	1,800 00		1,858 86	
Col., Pearl & Wal. Run Imp	1869	33,400 00	į i	84,492 18	
B. Prospect St. Opening	1872	4,500 00		4,647 15	
Grand Avenue Damages	1875	1,200 00		1,200 00	
liddings Ave. Opening	1872	1,300 00		1,848 51	
Harvard St. Damages	1876	1,600 00		1,659 33	
Lincoln Ave. Damages	1874	4,100 00		4,834 07	
March St. Extending		8,500 00		8,614 45 300 00	
Miles St. Damages Payne Ave. Opening	1874	300 00 89,600 00		98.529 98	
Russell Ave Opening	1873	7,600 00		7,848 52	
Russell Ave. Opening Seneca St. Opening	79, 75	6,000 00		6,196 20	
St. Clair St. Widening	1874	28,300 00		29,225 41	
Summit St. Opening	1872	6,300 00		6,506 01	i
Slater St. Opening		9,100 00		9,397 57	1
Woodland Hills Ave. Damages	1876	2,800 00		2,891 56	1
Total Street Damages			\$257,600 00		\$265,974 47
Street Improvement;			· ·		•
Atlantic St. Culverts	1875			1,032 70	i i
Broadway Pav., Union to Miles				19,621 30	1
Broadway Pay Ind. to Union	1872			2,581 75	Ī
Beckwith St. Grading	1875			1,239 84	ļ
Chestnut Ridge Grading	1874	4,600 00		4,750 42	
Buclic Ave. Pav., west of Erie.		5,000 00		5,168 50	i
Lincoln Ave. Culverts Seneca St. Paving	1875			4,647 15	
St. Clair St. Paving	1875 1871	4,000 00 7,938 16		4,180 80 7,288 16	l
Total Street Improvement	1011	1,500 10	49,088 16	1,400 10	50,405 O
Sewers:			99,000 10		30,200 0
Broadway Sewer	1875	\$ 2,800 00		2,875 71	ł
t. Clair Street Sewer	1876	4,600 00		4,750 42	<b>:</b>
Total Sewer	20,0		6,900 00		7,126 11
	Prior		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1,,
General:	to				1
funded Debt	1874	\$178,000 00		185,814 20	!
Cuyahoga River Dredging	1876	55 000 00		55,897 60	i
anal	'72-'76	8,000 00		8,811 76	l
Maduct	'72-'76	567,000 00		578,897 99	
Total General			\$ 808,000 00		\$827,851 5
Aggregates			1 101 800 10		1 121 025 4
Aggregates		l	1,121,588 16		1,151,857 1

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As shown by Table No. 4, bonds were issued in 1878 to the amount of \$1,121,538.16. Of this amount \$575,000 were issued to provide means to carry on the Viaduct and Canal improvements.

To complete payment for dredging done under contract with Sims and Smith, entered into in 1876, and to meet maturing bonds and interest on dredging account, \$55,000 of dredging bonds were issued.

Of the \$313,500 of special bonds issued in 1878, only \$20,-738.16 were an original issue, and these, of course, were on account of improvements authorized and begun prior to the taking effect of the Burns law, December, 1, 1876.

The balance of special bonds, \$292,800 were a re-issue to meet the principal and interest of original bonds maturing in advance of the collection of special taxes to meet their payment.

The \$178,000 of Funded Debt bonds issued in 1878 were issued to fund long standing indebtedness on account of Nicholson pavement royalty, steam road roller, street intersections and special road accounts, which, from its limit of taxation, the city was unable otherwise to provide for.

• • T. • .

TABLE NO. 6.

STATEMENT SHOWING THE AMOUNT OF STREET IMPROVEMENT BONDS ISSUED DURING 1878 FOR GRADING.

NAMES OF IMPROVEMENTS.	Rate Per Date of Septem- Septem- Septem- Septem- Septem- Septem- Septem- Cent. Issue. ber, 1879. ber, 1880. ber, 1881. ber, 1882. ber, 1883. ber, 1884.	Date of Issue.	Septem- ber, 1879.	September, 1880.	Septem- ber, 1881.	Septem- ber, 1882.	Septem- ber, 1883.	Septem- ber, 1884.	Total.
St. Clair Street Paving—Wood to Water. Brondway Grading and Paving. Union to Miles Euclid Avenue Paving—Monumental Park to	<b>20</b> 1-	Jan. 31 Sept. 1	<b>\$4</b> ,138 16	Jan. 31 \$4,138 16 \$2,300 00 \$ 300 00 \$ 500 00 S	9 300 00	\$ 500 00 19,000 00			\$ 7,238 16 19,000 00
Ente Street Senera Street Paving—St. Clair Street to Union Depot Atlantic Street Grading—Kinsman to Besner.	fe fefe	: ::	00 009	500 00 500 00 4,000 00	4,000 00		5,000 α 500 00 4,000 00	5,000 00	5,000 00 1,000 00
Broadway Grading and Paving—Independence to Union Beckwith Grading, etc.—Kinsman to Morton.	[]	::	200 00	2,500 700 00 00			2,500 00 700 00		2,500 00 1,200 00
hestnut Ridge Street Grading and Macadam- izing—Lorain Street to Ridge Road mooln Avenue Culverts.	1-1-	::	1,500 00	2,100 00 1,500 00			2,500 00 1,500 00		4,600 00 4,500 00
Total Issue for 1878.			\$6,638 16	\$6,638 16 \$9,000 00	\$8,300 00	\$19,500 00	\$8,300 00 \$19,500 00 \$5,000 00	\$5,000 00	\$49,088 16
			Amount the Y Amount Year	Amount of Street Improvement Bonds Issued During the Year 1877 Amount of Street Improvement Bonds Issued During the Year 1878	Improvem	ement Bo	nds Issue	d During uring the	\$394,967 43
			Amount	Issued in	1878 more	than in 16	<i>377</i>	:	Amount Issued in 1878 more than in 1877 \$345,919 27

TABLE NO. 7.

STATEMENT OF STREET IMPROVEMENT BONDS OUTSTANDING DECEMBER 31, 1678, AND MATURING AS FULLOWS:

NAMES OF STREETS.	Rate Per Cent.	September, 1879.	Septem- ber, 1890.	Septem- ber, 1881.	Septem- ber, 1882	Septem- ber, 1883	Septem- Septem- Septem- Septem- Septem- Septem- ber, 1878. ber, 1890. ber, 1881. ber, 1882. ber, 1883. ber, 1884.	Total.
Atlantic Street Paving, Culverts, etc.	1-1	1,700	\$ 1,700	1		\$ 1,000		9,400
Brownall Greet During Fug. Trion to Miles	- © - 1 © -	91 - 82 - 900 - 82 			00,68	27,500 19,000 2,000 39,800	19,000 39,800	8 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Becker Avenue Grading, etc. Beckwith Street Bolivar Street Grading and Paving	- t - t - t -	15 10 10 10 10 10 10 10 10 10 10 10 10 10	: :					4 4 4 600 600 600 600 600 600
Clinton Street Grading, etc.	<b>©</b> 1-1-	965°						1,500 1,500 1,500
Commercial Street Paving, etc. Case Avenue Grading and Paving—Euclid to Payne	. t - t - t	888 19191	:			000%		000 148
Columbus Street Grading and Paving.  (bestnut Ridge Street Grading, etc	D 2 3	2,41 2,000 2,000 2,000	14.50 100.00 100.00 100.00			2,500		98,100 901,98
Doan Street Grading, etc. Detroit Street Paving, etc.	<b>51-1-</b>	1,300	2,1,8,	:	<b>7</b>	<b>4,0</b> 00		00,408 00,409 00,000
Cedar Avenue Grading and Paving—Willson to Fair- mount.	40	1,000		3,000		3,000	000 8	14,600
Eagle Street Paving. etc.	-21-1	4.4.4 8.88	000; <del>*</del>	3,000	4,000	2,000		£,;
Euclid Avenue Repaying—Ferry to willson.  Bucild Avenue—Fairmount to City Limits.  Bucild Avenue—Willson to Fairmount.		3,300	& -1 c		600 600 600 600 600 600 600 600 600 600	5,100	8,200 000,01 000,01	2 2 2 4 4 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
East Mudison Avenue			3		:	:	:	1,400

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	100	_	3,000	-	3,100	9	3,500	30,100		9.500	1.500	1,800	2,000	2,600	1,700	5,100		9	000	900	000	, m,	-	- 67		1,000	:	000 71	7,000		2,000	1,700	2,000	::		a,uu	11 000
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Fulton Street Grading and Paving	Pairmount Street Grading and Paving Grand Avenue Grading, etc. Grand Avenue Grading, etc. Hodge Street—From Lowin Street South Herald Street Culverts, etc.	Hough Avenue Grading, otc Hayard Sirect Grading, etc.	Jennings Avenuc Improvement Kingman Street Paring—Willson Street to City Idmits	Long Street Paving Lake Street Paving, etc Lincols, aver Paving, etc	Miles Street Culverts, etc. Old River Street - Mulberry to Division	Ontario Street Paving—St. Clair to Summit	Prospect Street Repaving—Erie to Perry	St. Clair Street Paving, etc.—Erie to Water.	Seneca Street Paving, etc —St. Clair to Depot	Superior Street Repaving—Monumental Park to Eric	cine crading, etc	Willson Avenue-Lake Erie to Euclid Avenue.	Grading, etc. Euclid to Woodland	Culverts, etc.—Juna to maurice	" Grading, etc-Maurice to Sawtell	venue Paving, etc.	TOSIDED TO TOST WE STANDED TO THE MENTINGED TO THE MENTIN
Fulton Str	Fairmount Grand Ave Grand Ave Hodge Stre Herald Str	Hough Ave Haryard St	Jennings A Kinsman S	Long Stree Lake Street	Miles Stree	Ontario Str Perry Stree	Prospect St Quincy Stre	St. Clair Str	Seneca Street Stones Levee	Superior St Street	Tod Stroot	Willison Av	: :	: :	::	Woodland	;

TABLE No. 7.—Continued.

Total.	14,500 1,000 18,500 10,200 4,700 800	\$958,200	81,835,441 69	1,803,941 69 958,200 00
Septem- ber, 1884.	2,400 1,200 1,200	\$24,300		
Septem- ber, 1863.	7,500 8,400 8,400 1,200 1,200 1,200	\$312,300 \$248,900 \$189,500 \$141,800 \$43,400	ding Dec	ding Dec
September, 1882.	1,100	\$141,800	s Outstan ers 1 and	ls Outstan
September, 1881.	8.400 1,800	\$188,500	ent Bond at of Sew ad Accour	nent Bonc
Septem- ber, 1880.	7,500 8,800 1,200	\$248,900	mprovem on Accour	Improven
Septem- Septem- Septem- Septem- Septem- ber, 1872. ber, 1882. ber, 1882. ber, 1884.	7,000 1,000 1,000 8,800 1,200 800	\$312,300	Amount of Street Improvement Bonds Outstanding December 31, 1877. Less Bonds Senied on Account of Sowers 1 and 2, East Cleveland, Transferred to Sewer Bond Account	Amount of Street Improvement Bonds Outstanding December 31, 1878.
Rate Per Cent.	r0r0rr		Amount of 1877. Less Bonds Transfer	Amount 1878
NAMES OF STREETS.	Wade Park Avenue ('ulverts, etc Woodland Hills Avenue Grading and Culverts. Warner Road Masonry, Bridge, etc.	Total Amount Outstanding December 31, 1878		

Decrease During the Year 1878.

TABLE NO. 8.

STATEMENT SHOWING AMOUNT AND MATURITY OF BONDS ISSUED IN PAYMENT OF DAMAGES ON ACCOUNT OF STREET OPENINGS, WIDENING, ETC., DURING THE YEAR 1878.

11,130 08,230	11.82 90.85	9,500	2,800	12,000	14,500	6,000	21,000	\$202,400 \$188,000 \$155,900 \$177,300 \$158,400 \$128,600 \$ 82,900 \$ 19,300 \$ 2,000 \$ 1,086,900	\$1,066,800 00	\$56,386 66
		. <u>.</u>			-:	-		_ <b>**</b>	95	36
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44. 96.	96	3,000		4,000	:	6,000	: : : : : : : : : : : : : : : : : : :	177,300	Total Amount of Bonds outstanding Dec. 31, 1878	Net Increase during the year 1878
888	3.	8	8	8	004	:	8	! . <b>**</b>	Į.	
2,4 000,0	3	8	<b>5</b> .	4,000	4,5	:	7,000	\$155,9	·	
800 800 800 800 800 800 800 800 800 800	10,100	3,800	1,000		2,000		7,000	188,000		
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<b>∌</b>	:	900	٠. و		<b>3</b> . 5	1 7	<u> 25</u>			
Street Opening Soptem'r	St. Clair Street Widening	Wooding Hills Ave. Widehin -Kinsman to Meech.	-Kinsman to Miles.	5	way	o Broadway	wade Park Ave. Opening			
Slater Street Of Summit Street	St. Cladr	Woodian K	W.01909	Jo	to I	to Broad	Wade Pa	Total	1	

\*(harged to account of Broadway, Grading and Damages by Grading, from Union to Miles Street, all included in one assessment.

STATEMENT OF AMOUNT OF SEWER BONDS ISSUED DURING 1878, AND MATURING AS FOLLOWS: TABLE NO. 10.

Rate   When Issued.   Per When Issued.   When Issued.   Per When Issued.   Per When Issued.   Per When Duc.   1879   1880   1881   1882   Total.	\$83,704 15 6,900 00				377. 878	sued in 18	ount of Sewer Bonds Issued in 1877.	Amount of Sewer Bonds Issued in 1877.		
Rate   When Issued, when Due   1879   1880   1881   1888   Translation	98'800	\$4,600			\$1 800	\$1,000	:			Total Issue for 1878
Rate   When Issued, when Duc.   1879   1880   1881   1888   1888   Cent.   Ronds.   Ronds.	<b>\$2,800</b> 4,600	2,600			\$1,800	\$1,000	September September	September 1, 1878 September 1, 1876.		oadway Sower-East Kingsbury Run
Dirow	Total.	1883	38 38 38	1881	1880	1	When Due. Bonds.		Per Cent.	1

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### ·) MATURING AS FOLLOWS:

1887	1888	1889	1890	1891	1892	Total Each Is- sue Un- paid Dec. 31, 1878.	Totall paid D 31,187
1						\$ 40,800	
•••••	1	1		,			\$ 40,
1			. · • • · • • • •	; · · • • · · ·	••••••	5,000	
						89.800	
						700	
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• • • • • • • • • • • • • • • • • • • •	•••••	••••••			•••••	2,900	61,
<b></b> .	! ! • • • • • • •	i	l	<b></b>		1,600	,
	·	· • • • • • • • • • • • • • • • • • • •				2,800	
			••••		····· ··	12,000	
• • • • • • • • • • • • • • • • • • • •					••••••	2,000	
• • • • • • • •	,		I			2,000	
• • • • • • • • • • • • • • • • • • • •						7,700	40.
'			1				45,1
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		l. <b></b> l				10,000	٠,
						28,800	
• • • • • • •				• • • • • • • • • • • • • • • • • • • •		6,000	
<b>2</b> 0 000	<b>6</b> 9 200	· · · · · · · · · · · · · · · · · · ·	•••••	· • • • • • • • • • • • • • • • • • • •	••••••	9,000	
- 45 γOUU	الاستوراد و		••••••••			600	
						5,700	
			· '	'		4 000	59,8
		• •• • • • • • • • • • • • • • • • • • •	••••	••••	· • • • • • • • • • • • • • • • • • • •	8.000	
20.000	18.000	\$20,000	\$ 22,000			210,000	
	10,000	9,600				19,600	
· • • · · · · ·			· • • • • • • • • • • • • • • • • • • •		\$10,700	10,700	
· · • • • • • • • • • • • • • • • • • •		•••••		•••••	• • • • • • • • • • • • • • • • • • • •	2 500	
• • • • • • • • • • • • • • • • • • • •	••••		••••				257,
· • • • • • • • • • • • • • • • • • • •		·		. <b></b>		1,800	
		ı				9,000	1,8
• • • • • • • • • • • • • • • • • • • •	••••••				•••••	2,000	2,0
						89,100	
			·				89,1
· • • · · ·		••••	•••••			5,800	5,8
						8.000	0,0
• • • • • • • • • • • • • • • • • • • •			••••		,		8,6
· • • • • • · · ·						5,800	
	i '	١				10.000	5,8
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• • • • • •	ا		l			8,700	
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	••••			· • • • • • • • • • • • • • • • • • • •	•••••	1,200	1,
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	· · · · · · ·					<del></del>	1,0
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						2,200	1,8
						i	2,5
						81,500	
			i		İ		81,
			·				
\$22,800°	\$30,800	\$29,600	\$22,000		\$10,700	¦	\$586,
		\$ 2,800 \$ 2,800	\$ 2,800 \$ 2,800	\$ 2,800 \$ 2,800	\$ 2,900 \$ 2,800 20,000 18,000 \$20,000 \$ 23,000	\$ 2,800 \$ 2,800	\$ 40,800 6,000 7,000 7,200 2,900 1,600 2,900 1,7,000 2,000 7,700 3,200 3,200 7,700 3,200 3,200 3,200 3,200 5,000 5,000 8,400 6,000 6

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### 5, AND MATURING AS FOLLOWS:

192	1893	1894	1805	1896	1897	1898	1907	Total.
)0,000 30,000	\$200,000 200,000	\$200,000	\$200,000					\$ 1,700,000 1,509,000 54,000
30 <b>,000</b>	148,000	150,000 270,000	88,000 300,000	\$ 28,000 500,000	\$225,000	\$- 8,000 567,000	\$125,000	100,000 815,000 272,000 2,135,000
30.000	\$548,000	\$620,000	\$588,000	\$528,000	\$225,000	\$575,000	\$125,000	184,000 409,000
!								953,200 1,066,800 586,100
50,700	\$548,000	\$620,000	\$588,000	\$526,000	\$225,000	\$575,000	\$125,000	\$ 9,284,100
:	Total An	ount of I	Sonded In	debtedne	s Dec. 31,	1878 1877		,284,100 00 ,054,164 58
- 11							·	



#### ASSETS AND SINKING FUNDS.

The foregoing minute exhibit of city indebtedness should be accompanied by a representation of the sources of its payment, and of the city property into which the general debt has gone.

Of course the *special* bonded debt, \$2,606,100, represents the cost, so far as the same is unpaid, of various special local improvements, for which the city has undertaken a temporary liability, and which must be met by special local assessments that the city is fully authorized to levy.

The general bonded debt \$6,678,000, is best represented by the city property into which it has gone, which, with its valuation, is embraced in the following schedule taken from the last annual address of Mayor Rose:

Armory and lot, , ,	. \$ 20,000 00
Bridges and appurtenances,	. 293,000 00
Canal Lands,	. 300,000 00
Fire Department, real estate and equipments,	. 368,870 00
Infirmary Farm and improvements,	. 163,673 00
Lake View Park,	. 307,396 00
Land-Miscellaneous parcels, 43 in number,	. 79,604 00
Market grounds and buildings,	. 156,295 00
Police Department, real estate and equipments, .	. 157,268 85
Pest House and Farm,	. 30,000 00
School Department, real estate and equipments, .	1,590,654 00
Viaduct,	2,135,000 00
Water Works, real estate and equipments,	2,392,029 00
Workhouse, grounds, buildings and equipments, .	. 231,633 00
Total,	\$8,225,422 85

The city of Cleveland has, at present, three sinking funds, so called:

- 1. The Sinking Fund of 1862.
- 2. The General Sinking Fund.
- 3. The Viaduct Sinking Fund.

The Sinking Fund of 1862 was created such by ordinance of the City Council passed May 6, 1862, under authority of an act of the Legislature passed March 28, 1862. This fund is already specially pledged for the payment of Water Works bonds of the city issued prior to 1870, the last of which mature in 1884. The Fund has been managed with signal sagacity and success, and has a par value, as reported to the City Council January 1, 1879, by the Commissioners, of \$1.816.690.53.

The General Sinking Fund consists of the proceeds of an annual tax of "not less than one mill, nor exceeding three mills," authorized by law, and hitherto applied to the payment of maturing general bonds not otherwise provided for. Though called a sinking fund, no part of it has ever been invested and managed as such. A sufficient tax has been levied each year to meet the bonds maturing in the succeeding year, and the money has lain idle in the treasury till needed for such purpose. As the sums falling due in each year vary, the levy for this purpose has varied accordingly.

The amount of general bonds not otherwise provided for, maturing in each of the ten years from 1880 to 1889 inclusive ranges from \$35,000 to \$317,000. Of course, a levy varying to correspond, would, in some years, be exceedingly onerous, even if the limit of taxation would admit it. Nor can payment of any of the bonds maturing previous to 1890 well be extended, as the years beyond 1890 are already laden with maturing bonds, payable from this fund averaging over \$300,000 per year up to 1897.

The true policy is to make a uniform average annual levy, and create a real sinking fund, adequate, with its proceeds, when properly invested and managed, to extinguish all the bonds of this class at maturity. An ordinance making provision for such a management of the fund is pending (Feb. 24, 1879), in the City Council.

The Viaduct Sinking Fund, for which the first levy, \( \frac{16}{26} \) of a mill is made in the tax of 1878, had a credit January 1. 1879, of \$1,951.01 arising from the sale and rent of premises acquired by the city on the Viaduct route, with some minor credits. To this fund the proceeds of a tax "not exceeding two mills," as required by law will annually accrue, beginning with the tax of 1878. To this fund also, the proceeds of the sale or rental of all Canal and Viaduct property belong.

The bonds issued for Viaduct and Canal account mature from 1893 and on, as shown by Table No. 5, so that fifteen years will elapse before any disbursements from this fund will be required. The proceeds of a moderate levy, wisely invested and managed in this fund, will provide for all Viaduct and Canal bonds. Provision for the management of this fund is also made in the pending ordinance before referred to.

With these established sinking funds committed to the care of the present Sinking Fund Commissioners, whose sagacity and fidelity are unanimously acknowledged by their fellow citizens and who justly take a worthy pride in the administration of their trust; and with the latter two funds annually replenished by a uniform but ample levy; and with a steady adherence to paying debts as they mature and making no new ones, the people of Cleveland, as well as her creditors, may consider her indebtedness duly provided for.

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st.	of Bonds	Total Am'nt of Interest Due in 1879.	Balance Bonds Un- paid Jan. 1, 1880.	FOR WHAT PURPOSES ISSUED.
	3 25,000	\$ 13,500	\$ 1 200,000	
	400,000	89,250		Water Works.
ю .	100,000	12,720	212,000	
. 1		90,790	1.207.000	
00	6,000	3,240	48,000	Infirmary Purposes.
200 I	20,000	6.000	80,000	
	20,000	22.050	215,000	Parks.
50	· · · · · · · ·	480	8,000	
ĩõ.	· · · · · · · · · · · · · · · · · · ·	18,480	284,000	
1		6,250	125,000	
•• •	· • · · · · · · · · · · · · · · · · · ·	95.520	1,592,000	
10 .	11	29,280	418,000	
75	i i i i i i i i i i i i i i i i i i i	12.880	184,000	House of Correction.
10	1		205,000	
00	54,000	13,920		Schools
	· · · · · · · · · · · · · · · · · · ·	10,500	190,000	Sewer District No. 1
50	6,000	2,821	34,300	
• • • •	3,000	360		
• • • •	12,400	3,892		·
• • • •	11,500	1,983	21,900	
• • • •	9,000	819	2,700	
	800	168	2,400	1
	10,000	600		
• • • •	6,300	3,465	43,200	
	5,000	300		1
	12,800	17,563	238,100	
	1,000	91	300	
	1,000	140	1,000	
	5.000	2,737	34,100	
	2,500	371	2,800	Broadway Sewer, east of Kingsbury Run
	2,000	560	6,000	
	1,500	371	3,800	Superior St., Sewer, east of Doan Brook
	3,000	1,162	13.600	St. Clair Street Sewer
	1,700	259	2.000	Garden Street Sewe
	· 1 600	84	600	
	· 1 500	70		Beech Street Sewer
	700	91	600	Kennard Street Sewer
• • • •	2.200	154		Windsor Avenue Sewer
• • • •		1,890	31,500	Sewer Districts Nos. 1 and 2, E. Cleveland
• • • •	812,300	68,061	640,900	Street Improvemente
• • • •	202,400	73,299	884.400	Street Damage
• • • •	200,100	10,000		Street Damages
				i
1945	31,118,200	\$601,151	. <b>\$8,165,90</b> 0	<b>)</b> ;
,945	31,118,200	\$601,151	\$8,165,900	) 
,945	31,118,200	<b>\$601,151</b>	\$8,165,900	); 
,945	31,118,200	\$601,151 \$1,719,351	\$8,165,900	<b>)</b>

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TABLE NO. 15.

A COMPARATIVE ANALYZED STATEMENT OF DISBURSEMENTS FROM THE GENERAL FUNDS OF THE CITY OF CLEVELAND FOR THE YEARS 1875, 1876, 1877, 1878.

Total Disbursements.	4, 2, 215 21, 225 21,	\$1,044,162 86
Costs of Court, Judgments, &c.	19,086 20 10,087 39 2,465 00 4,088 82 82,858 72	\$8,200 40
Now Buildings, Land, and other Permanent Improvements.	\$19,072 98 \$19,066 20 \$5,200 40 \$6,25,25 \$2,200 40 \$7,25 \$2 \$2,200 40 \$2,25 \$2,200 40 \$2,25 \$2,200 40 \$2,25 \$2,200 40 \$2,25 \$2,200 40 \$2,25 \$2,200 40 \$2,25 \$2,200 40 \$2,25 \$2,200 40 \$2,25 \$2,200 40 \$2,25	\$134,811 26
Ordinary Ex- Amounts Paid Land, and other Costs of Court, Potal Penses. for Work Done Permanent Judgments, &c. Disbursements.	\$19,072 98 \$13,086 20 \$3,200 40 \$3,200 40 \$2,465 00 \$2,4	\$19,072 98—
Ordinary Expenses.	2.26.26.26.26.26.26.26.26.26.26.26.26.26	\$887,078.26
1875	Bridge Fund Dredging Fund Dredging Fund General Fund General Fund Ges Fund House of Correction Infirmary Fund Market Fund Park Fund Park Fund Police Department Street Department	Total Disbursements for 1875.

TABLE No. 15.—Continued.

Bridge Fund         \$ 24,186 44         \$ 24,186 44         \$ 24,186 44         \$ 24,186 44         \$ 24,186 44         \$ 24,186 44         \$ 24,186 44         \$ 24,186 44         \$ 24,186 44         \$ 21,186 46         \$ 21,111,71	1876	Ordinary Expenses.	Amount Paid for Work Done in Former Years.	New Buildings, Land and Other Permanent Improvements.	Amount Paid New Buildings, Jurors Fees Total for Work Done I and and Other Jurors Fees Total in Former Permanent Superior Court, Disbursements.	Total Disbursements.
46,684 72 \$ 46,645 39 \$ 10,256 63 136,682 70 \$ 10,256 63 136,482 70 \$ 6,000 35 116,482 70 \$ 10,455 65 116,455	Bridge Fund	\$ 24,185 44		_		
119,685 70 119,485 70 119,485 66 119,485 67 119,480 94 84,580 94 84,680 94 114,189 85 114,189 86 114,189 86 114,189 86 114,189 86 114,189 86 114,189 86		49,834 72	<b>\$</b> 46,643 39			
110,425 06 62 60 86 18,846 84 84,848 94 64,712 40 84,848 94 84,848 94 84,848 98 114,199 36 98,0713 86 98,0713 86 98,0713 85 98,0713		156,688 20		20,256 62 26,289 62 77	\$ 17.684 TK	
84,589 34 84,589 34 8,040 70 6,988 57 114,189 36 98,073 86 99,073 86 98,073 86	Gas Fund	119,426 06		6,050 36		
\$ 9.772 46 \$ 9.00 70 \$ 154,528 86 \$ 99,073 86 \$ \$ 46,643 39 \$ \$ 176,664 75	Infirmary Fund.	25,530 25,530 25,530 25,530		46,712 40		
164,659 88 99,073 86 \$980,748 12 \$ 46,643 39 \$176,664 75		25.08.48 20.08.48 34.05.08.48		1,055 96		
\$990,748 12 \$ 48,643 39 \$176,664 75		164,528 38 99,073 86				1
		\$880,748 12		\$176,664 75	\$ 17,684 75	

TABLE NO. 15-Continued.

1877.	Ordinary Ex- penses of 1877, Paid in 1877-8.	Total Ordinary Ex- ponses for 1877.	Amounts Pald for Work Done in for- mer Years.	Amounts Paid New Jointainks (Note of Court for Work Uther Perms, Judgmonts Done in for nent Improve noous Exp'ses, mer Years.	Costs of Court Judgments and Miscella- neous Exp'ses.	Total Diabursements
Bridge Fund Bills contracted in 1877, paid in 1878	\$19,822 68 382 69	5 S		\$13,962 36		\$88,686 04
Dredging Fund	\$52,841 78 82,175 61	85.017.39	\$38,794 31			80 969*98
Fire Department	\$114,169 45 11,784 80	\$6 \$4		41,867 00		156,026 45
General Fund. Bills contracted in 1877, paid in 1878	\$88,900 34 6,723 15	9. 20. 20.		23,614 66	\$12,746 06	125.281 06
Gas Fund Bills contracted in 1877, paid in 1878.	\$94,206 70 22,378 49	118 507 10		:	686 75	84,907 45
House of Correction	\$80,013 97 19,058 56					80,013 97
Infirmary Fund Bills contracted in 1877, paid in 1878	98 782'6 8'784 88	96	5,350 00		14,000 00	99,619 00
Market Fund Bills contracted in 1877, paid in 1878	\$6,506 57 1,475 41	<b>S</b>				6,506 57
			_	-		

TABLE NO. 15-Continued.

1877.	Ordinary Ex- Total Paid in 1877-4. penses for 1877.	Total Ordinary Expenses for 1877.	Amounts Paid Land and Judgments for Work Other Permand Judgments Done in for Other Permand Miscellamer Years.  mer Years.  Inents.	New Buildings Land and Other Perma- nent Improve- ments.	Costs of Court Judgments and Miscella- neous Exp ses.	Total Improvementa.
Police Court Fund Bills contracted in 1877, paid in 1878	_	\$0.610 51	88,885 38 775 18 80.810 51	\$2,439 30		\$2,439.30
Park Fund Bills contracted in 1877, paid in 1878.	\$6,643 57 184 72	88. 88. 88.	2,556 67	2,546 67		9,190 %
Police Department. Bills contracted in 1877, paid in 1878	\$159,986 72 2,400 00	169.386.72	162.386.72			159,086 72
Street Department. Bills contracted in 1877, paid in 1878	\$65,899 05 3,768 54	69,667 59	69,667 59			90 868,899 06
Total		\$88,488 29	\$39,144 31	\$113,208 15	\$12,746 06	\$829,005 40

TABLE NO. 15-Continued.

Total Disbursements	\$88.387.77 74.2828 07.74 74.2828 04.76 126.9770 44 118.2813 88 18.2813 88 18.2813 85 18.282 04 18.283 04 1	\$1,077,741 72
a. Contracted in Bar. 1877, Paid Disb es, in 1878.	11, 154 90 11, 154 11,	\$124,576 40
osts of Cou Judgment and Miscell cous Exp's	1,470 70 8,888 31 98,818 90	\$125,949 49
Amounts Paid New Buildings Cordinary Ex- for Work Land and Land and Penses. Done in for- nent Improvenmer Years.	\$33,241 48 \$4,256 66 5,400 11 1,401 45	\$10,582 00
Amounts Paid for Work Done in for- mer Years.	\$33,241 48 \$4,236 66 5,400 11 1,491 45	\$33,241 48
Ordinary Ex- penses.	88. 8.8. 8.3.38 e e e e e e e e e e e e e e e e e e e	\$788,392 35
1878	Bridge Fund Dredging Fund Fire Department General Fund General Fund House of Correction Infirmacy Fund Market Fund Market Fund Park Fund Perk Fund	Total Disbursements

TABLE No. 16.

COMPARATIVE TAX OF 1875, 1876, 1877 AND 1878.

YEAR.	Valuation.	Rate of Levy.	Am'nt Levied.
1875	\$73,305,277	18½ Mills.	\$1,874,478 84
1876	73,562,237	18 <u>1</u> 5 Mills.	1,379,291 94
1877	71,298,122	1717 Mills.	1,272,635 78
1878	70,139,639	15% Mills.	1,076,648 46

#### THE LEVY OF 1878.

The following is the provision of law limiting municipal taxes, Section 9, page 400, of the Municipal Code of 1878:

"The aggregate of all taxes levied or ordered by any municipal corporation, including the levy for general purposes, above the tax for County and State purposes, and excluding tax for schools and school house purposes, shall not exceed in any one year—

"In cities of the second grade of the first-class, eleven mills, and such further rate as may be necessary to pay the interest on the public debt, and for cemetery purposes, as provided by law,"

TABLE NO, 17.

TAX OF 1878, TO MEET EXPENSES OF 1879.

FUND.	Rate. Mills.	Valuation.	Amount Levied.
Bridge	10000	\$70,139,639	\$ 13,137 15
Dredging	18800		16,412 67
Fire Department	1,0722		181,822 45
Gas or Lighting.	1,4848	"	98,490 08
General	1,778	**	82,077 41
House of Correction	10006		13,137 15
Infirmary	7021 10000		49,245 04
Police	1,8723	•	181,322 45
Street	10000	44	59,099 66
Street Intersections	10000		59,099 66
Sinking, (General)	10000	46	68,947 27
Sinking, (Viaduct)	7021	1	49,245 04
-	11 Mills.	; ;	
Cemetery	1000	46	10,520 95
Interest	<del>4.%</del>		294,586 48
Total,	15 186		\$1,076,643 46

Whether the levy of 1878, as above, be sufficient to meet the expenses of the city for 1879 or not, it is all that could be levied under the law as quoted above, and I do not believe that the tax payers wish to see the limit placed any higher by a change in the law. I believe it to be wholly feasible to bring the expenditures of 1879 within the levy, indeed I am firmly of the opinion that the limit might well be ten instead of eleven mills, and expenditures be made to correspond.

Table No. 18. SPECIAL ASSESSMENTS STANDING ENJOINED JANUARY 1, 1879.

The state of the s	200	É	AMOUNT ENJOINED.	JOINED.
NAME OF IMPROVEMENT.	FIGOR.	10.	1877	1878
Bond Street Opening.		Superior Street	\$ 139,635 10	\$26,008
Istordwry Pring	i i i i i i i i i i i i i i i i i i i	Union Street. Miles Street. Independence Street.	141,384 06	141,38
Chestnut Ridge Macadanizing Franklin Street Paying.	Lorain Street Harbor Street	Ridge Road Waverly Street	11,560 42	5,327 43
Herald Street Grading, etc Bennings Avenue Paving Kinsman Street Paving	Woodland Avenue. Scranton Avenue Willson Avenue	Kinsman Street. 150 ft. S. Crown St. City Limits.	4,650 83	804 16
Lake Street Paving.	Water Street	Erle Street	4,258 21	4,250 04
Jong Street Faving Orange Street Opening Pavne Avening Opening	Superior Street.	Willson Avenue	3,696 85	6,919 97 78,153 10
Senesa Street Opening Sheriff Street Opening	Prospect St. Huron St.	Huron St.	29,888 75 71,501 17	29,988 75 1,217 44
Slater Street Opening Summit Street Opening.	William Amount	Cotton I consider	5,040 1,21 1,188 1	5,510 00 511 15 512 15
Superior Sirvet Walding	Willson Avenue	City Limits	11 111,42	\$ 55 5 55 5 55 5 55 5 55 5 55 5 55 5 55
Walword Kun Bridge, etc. Willson Avenue Opening. Grading.	St. Clair Street Julia Street	Lake Eric Maurice Street.	10,004 00 17,947 85	7,179 08
			\$1,052,668 51	\$175,798 96

#### RESULTS FOR THE YEAR 1878.

Maintaining the efficiency of every branch of municipal service, and meeting each emergency in which an extraordinary outlay was necessary, the City Council, the various departments and city officers have concurred and succeeded in effecting a decided reduction in the cost of the city government to the tax payers.

The disbursements for ordinary expenses of 1878—as shown by table No. 15—are less than those of 1877 by \$105,095.94; less than those of 1876 by \$147,355.77, and less than those of 1875 by \$103,685.91; yet the maturing indebtedness of 1878 has been promptly and fully paid. The Viaduct and Canal projects, for which the prime liability was incurred years ago, and which both public demand and public policy have urged on, have been steadily carried forward so near to completion that no more bonds need be issued therefor.

Aside from bonds issued to complete the above enterprises, the general and special bonded indebtedness of the city has been reduced in 1878 by \$345,064.58.

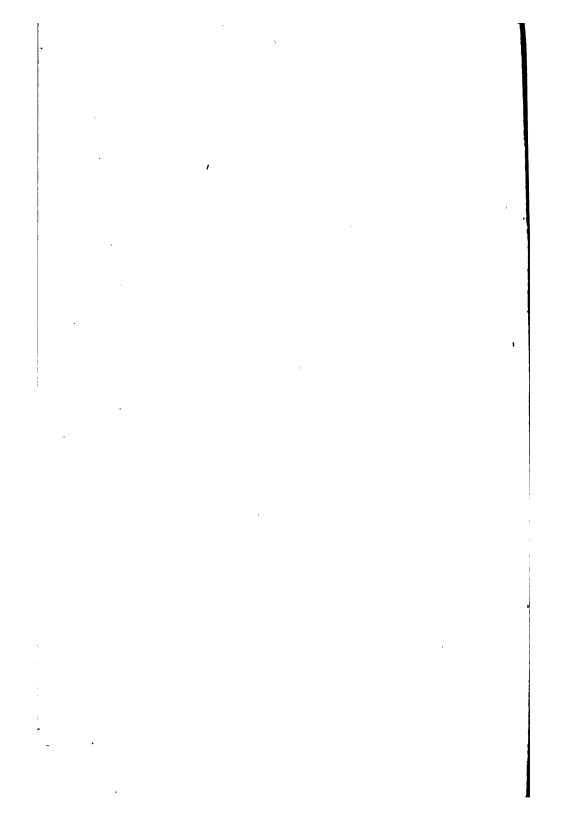
The aggregate of the overdrawn special accounts, as shown by the Auditor's report for 1877, has been reduced from \$536,062,06 to \$274.798.36.

Special taxes in arrears against city property have been adjusted to the amount of \$10,569.62.

The tax levy of 1878, for municipal purposes, including due provision for the Viaduct Sinking Fund as required by law, is \$195,992.32 less than that of 1877; \$302,648.48 less than that of 1876, and \$297,830.48 less than that of 1875, as is shown by Table No. 16.

Respectfully submitted,

HENRY FORD, City Auditor.



## ANNUAL REPORT

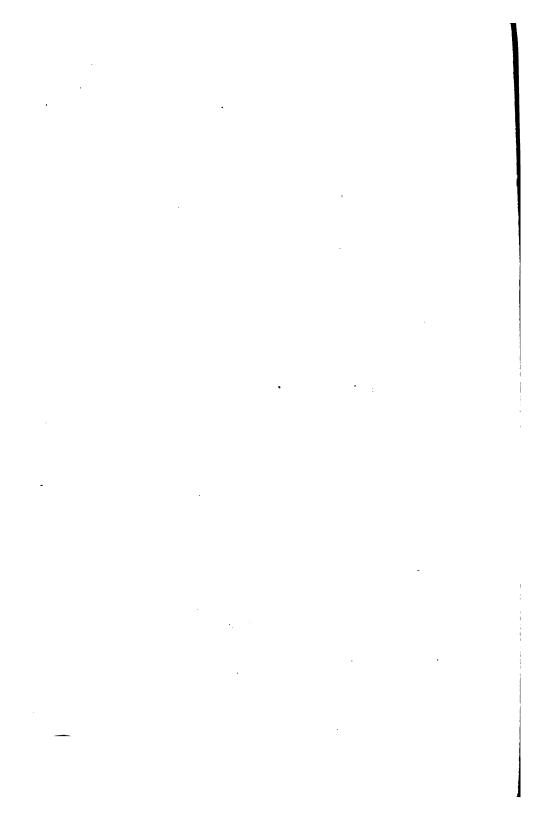
OF

# THE CITY TREASURER,

OF THE

CITY OF CLEVELAND,

FOR THE FISCAL YEAR ENDING DEC. 31, 1878.



## CITY TREASURER'S REPORT.

To the Honorable Mayor and City Council of the City of Cleveland, Ohio:

Gentlemen:—Herewith I beg to submit to you a detailed statement of the receipts and disbursements of the general funds of the city for the fiscal year ending December 31, 1878.

#### DEBIT.

\$6,475 60 6,234 98	\$3,696 70	
	236 71	\$3,933 41
129 01 5,680 65	2,951 13	• •
5,809 66 15,429 75	9,620 00	r.aas se
422 04 15,440 10 4 00	1,246 17	inina v
15,866 14 26,387 66	10,521 52	9,275 3
13.666 21 4,506 25	4.719 30	
18,172 46 30,517 02	12,344 56	7.625 26
	129 01 5,880 65 5,809 66 15,420 75 422 04 15,444 10 15,444 10 15,846 14 26,387 66	\$6,475 00 6,238 08 236 71 2,961 13 129 01 5,680 65 5,809 66 15,429 75 9,620 09 1,246 17 422 04 15,440 10 4 00 15,886 14 26,387 66 10,521 52 4,719 30 13,686 21 4,506 25 18,172 46 30,517 02

SEWER DISTRICT NO. 9— Overdrawn. Disbursements		\$657 61 34 00	
Overdrawn	-		<b>\$6</b> 91 61
SEWER DISTRICT NO. 10— Overdrawn	\$1,858 72 641 87	92 97	
Disbursements	2,500 09 5,806 18	D 1000 04	•
Overdrawn		2,806 04	2,889 01
SEWER DISTRICT NO. 12— Overdrawn	6,408 51 4,682 48	4,565 00	
Disbursements	11,085 94 8,256 34		
	n,20n 0±	2,829 60	
Overdrawn  BROADWAY FUND— Overdrawn Disbursements	102,668 84	14,541 28	1,735 40
Receipts	97,711 93	4.956 41	
Overdrawn	-	1	19,497 60
KINSMAN STREET— Halance Disbursements Receipts	47,563 07 22,071 16	280 07	
Overdrawn.		25,491 91	25.211 84
ELM STREET—			~ imil 01
Overdrawn. Overdrawn.	-	1,018 29	1,013 29
('HAMPLAIN STREET— Overdrawn		3,219 58 1,562 38	1.000.00
Overdrawn	_		1,657 20
GERMAN STREET— Overdrawn Receipts Overdrawn	-	1,660 38 1,368 05	297 33
CENTER STREET— Balance: Disbursements.	1,799 81	881 98	
Receipts	205 92	1,598 39	
Overdrawn	-	1,000 00	711 41
BANK STREET— Overdrawn Overdrawn	_	6,559 09	8,550 Nu
MAIN STREET-			-, · <del></del>
Overdrawn Receipts Overdrawn	_	4,905 39 4,223 19	6PE 20
EAST PROSPECT STREET DAMAGES—		_	THE ALL
Overdiawn Receipts Disbarsements	6,084 33 140 00	5,992 52	
Overdrawn		5,944 83	48 19

OEDAR AVENUE SEWER—		\$142 58	
DisbursementsOverdrawn	- !-	968 00	\$1,105 58
MILFORD STREET—			
Overdrawn	\$786 71 720 17	69 71	
Overdrawn		66 54	8 17
SEWER DISTRICTS NOS. 1 AND 2. E. C.—			
Overdrawn Receipts from County Treasurer Receipts from Other Sources	869 32 1,548 74	58-88	
Disbursements	1,918 06 1,890 00	un ne	
Overdrawn		28 06	30 77
PEARL STREET FUND—		18,796 28	
Receipts Disbursements	5,864 05 1,070 00	4,794 05	
Overdrawn	-		4,942 23
WEST RIVER STREET FUND-			
Overdrawn	15,154 05 8,745 00	14,280 95	
Overdrawn		11,409 05	2,851 90
SUPERIOR STREET FUND-			
Overdrawn Receipts Disbursements	19,216 95 24 82	20,042 <b>67</b> 19,192 13	•
Overdrawn	-		850 54
EUCLID AVE. MACADAMIZING, E. C.— Overdrawn Disbursements.	10,731 49	501 77	
Receipts  Overdrawn	8,006 61	2,725 88	3,817 65
LAKE STREET FUND-Overdrawn.		6,845 04	
Receipts	25,421 66 28,292 66	2,129 00	
Overdrawn	-		4,216 04
SUPERIOR ST. OPENING & WIDENING— Overdrawn Disbursements. Overdrawn.	_	6,356 88 977 94	7,384 82
EUCLID AVENUE REPAVING— Overdrawn	11,583 43	<b>376 27</b>	
Diabursements	11,400 00	188 48	242 84

<del></del>	<del></del>		
WOODLAND AVENUE WIDENING-	•		
-		<b>Ac 200</b> 0 00	
Overdrawn	80 0m) F4	\$6,728 28	
Receipts	\$2,872 74 2,857 00		
Disourschiens	2,001 00	15 74	
Overdrawn		10 /4	<b>36.</b> 707 54
O'0144###			deting of
LORAIN STREET—			
Overdrawn		3,388 58	
Receipts		8,856 08	
Overdrawn			32 45
TOTAL CALL TITLE			
DETROIT STREET—		3,906 78	
Overdrawn Receipts	11,410 69	armo to	
Disbursements	8,783 88		
		2,626 86	
Overdrawn	-		1,279 92
WOODLAND AVENUE-			
Overdrawn	FW 040 47	28,290 84	
Receipts	57,946 45 33,452 98		•
Disbursements	201,402 110	24,493 47	
Overdrawn		24,480 41	3,797 37
Ovotulawii	_	·	4 (8) 41
CENTRAL WAY—			
Overdrawn		15,770 36	
Receipts	8,829 60		
Disbursements	8,330 00		
		499 60	
Overdrawn	-		15,270 76
OM OT ATD OWNERS			
ST. CLAIR STREET—		8,178 17	
Overdrawn Disbursements	28,733 03	0(110-11	
Receipts	28,549 56		
		183 47	
Overdrawn	-		X,361 64
			•
SENECA STREET—			
Overdrawn	10,785 75	4,536 76	
Receipts	7,176 00		
Disbursements	1,110 00	3,609 75	
Overdream	_	0400W (0	927 OI
Overdrawn			ner or
ARLINGTON STREET—			
Overdrawn		96 98	
Disbursements		312 48	
Overdrawn	-		400 46
DOCADELE COMPA			
BROADWAY SEWER-		0 OFO C	
Overdrawn	4,986 57	3,359 35	
Receipts	1.874 32		
Disparsements	1,014 12	3,112 05	
Overdrawn	_		247 30
Javana			~**
FRANKLIN STREET-			
Overdrawn		14,926 97	
Receipts	19,651 09		
Disbursements	11,994 62	# OFA 1#	
O		7,656 47	-
Overdrawn	_		7,270 50
COLUMBUS STREET—			
Overdrawn		17,187 61	
Receipts	53,085 99		
Disbursements	86,695 48		
<del>-</del>		16,390 51	
Overdrawn.	_		797 10

HARKNESS AVENUE— Disbursements Receipts. Overdraws.			\$22 53
WADE PARK AVENUE DAMAGES— Balance Disbursements, Receipts	10,076 62 9,582 84	\$76 22	
Overdrawn.		493 78	417 56
GRADING, PAVING AND DAMAGES SUNDEY STREETS— Overdrawn	297,929 32	118,717 29	
Diabursements	213,585 67	84,393 65	34,323 64
Balance Cash on hand			810,511 82

### CREDIT.

	· .	-,-	
SINKING FUND—  Balance, Jannary 1, 1878  Receipts from County Treasurer	\$168,862 79	\$ 4,029 44	
Disbursements, Payment of Bonds		8,862 79	
Balance			\$12,392 23
BILLS PAYABLE— Outstanding, Note to Police Life and Health		•	
Insurance Fund			3,000 00
GENERAL FUND—		an an mal	
Balance	35,075 58 85,000 00 8,058 18	20,962 50	
General Licenses	5,408 82 1,217 81 1,545 28		
Disbursements	136,800 67 126,806 44	9,994 23:	
Balance			30,956 73
FIRE DEPARTMENT FUND.		00 00F 01	
Belance	154,882 56 2,400 70	86,865 91	
Disbursemeuts	156,738 26 159,970 44	8,237 18	88 <u>1,02</u> 24 73
Balance			90,000 III
INFIRMARY FUND— Overdrawn	75,250 27	4,011 54	
Rec'pts fr W. H. Eckman, City Cl'k, Licenses Other Sources	83,616 00		
Disbursements	59,978 63	23,642 37	
Balance			19,630 83
HOUSE OF CORRECTION FUND			
Balance.  Receipts from County Treasurer  W. D. Patterson, Supt.  Other Sources.	27,793 50 82,245 40 9 87	28,7789 90	
Disbursements	110,048 27 182,818 88	22,765 61	
Balance	i i		5,974 29

			. r
POLICE COURT FUND			
Balance. Receipts from O. S. Gardner, Police Clerk " Other Sources	\$9,224 66 10 20	\$1,823 55	
Disbursements	9,234 86 9,382 03		
Balance		147 17	\$1,676 38
	• ;		
VIADUCT SINKING FUND—  Balance	į	648 08	
Rec'pts from Sale of Old Buildings and Rents Balance	i.	1,307 98	1,951 01
MARKET FUND-			
Belance		111,271 51	
Receipts from Premiums.	6,745 70 16,299 49		
" Other Sources	25 26		
Disburrem'ts, Including Transfers of \$95,000	23,070 45 108,237 18	85,166 78	
Balance			26,104 78
CUYAHOGA RIVER DREDGING-	1		<b>.</b>
Overdrawn	46,903 84 56,243 43	23,128 33	•
Disbursements	108,147 27 74,282 08	28,885 19	
Balance	١.		5,756 86
CLEVELAND POLICE FUND—			
Balance	150,891 97 478 61	19,364 39	
Disharamenta	151,370 58 157,546 21		
Disburgements	101,010 #1	6,175 68	13,188 76
Balance			2002111
INTEREST FUND-			
Receipts from County Treasurer	406,876 75 35,000 00	45,670 65	
" A. & G. W. R. R. Co. in Settlement of Paving Tax Other Sources	5,638 88, 5,570 28		
Diabursements	453,085 91 417,237 24		
Balance		35,848 67	81,519 32
angement			
SCHOOL CONSTRUCTION FUND			
Balance	:.	8,507 85	3,507 85

	,		
PARK FUND—		\$10 nno an	
Receipts from County Treasurer  Other Sources	\$3,507 56 202 37	\$18,098 60	
Disbursements	3,709 93 6,678 19	2,968 26	
Balance	•	w,000 20	\$10,130 34
CANAL FUND—	1		
Overdrawn	8,311 76 3,349 54	1,531 32	
Balance		4,962 22	3,430 90
CEMETERY FUND-			
Balance. Disbursements. Balance	1.	2,167 42: 1,914 78	252 64
STREET FUND-			
Balance	63,136 05 7,885 60	14,457 37	
Disbursements	71,021 65 67,189 58		
Balance	<del></del> ,	3,882 07	18,289 44
SPECIAL ROAD FUND-			
Overdrawn	15,969 33 59,048 96	35,183 52	
Disbursements	75,018 29 36,492 67		
Balance	<del></del>	38,525 62	3,342 10
	-	•1	
GAS FUND—			
Belance	105,226 74 10,000 00 474 34	24,047 58	
Disbursements	115,701 08 131,304 19		
Balance		15,608 11	8,444 47
BRIDGE FUND-			
Balance	28,045 27 11 87	17,599 06	
Disbursements	28,057 14 38,357 71	10.000 ===	
Balance		12,300 57	5,298 49

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VIADUCT FUND— Balance		\$156,884 54	
Receipts from Sale of \$567,000 00 Bonds and Premium.  Disbursements	\$578,397 99 559,513 48	10 004 21	
Balance		18,884 51	\$175,719 05
SEWER DISTRICT NO. 4— Balance		13,877 49	
Rec'pts from County Treas., District Tax Deling't " Deling't "	65 07 54 09	10,011 10	
Disbursements	119 16 9,653 46	9,584-30	
Balance			4,343 19
SEWER DISTRICT NO. 5-4  Balance	761 04 11,749 66	12,216 36	
Disbursements	12,510 70 23,963 88	11,453 18	
Balance		11,50,10	763 18
SEWER DISTRICT NO. 6—  Balance	1,080 00	1,707 08	
Receipts from County Treas., District Tax	90 97	939 08	
Balance			768 06
Overdrawn Rec'pts from County Treas., District Tax  " " Bale of Bonds. " " Other Sources " " "	20,279 45 27,811 59 4,225 81 36 68	12,379 75	
Disbursements	52,353 53 30,862 51	12,991 02	
Balance		16,001 (6	611 27
SEWER DISTRICT NO. 8— Overdrawn.		2, <del>4</del> 67 51	
Rec'pts from County Treas., District Tax " " Deling't " " " Other Sources	3,070 77 354 68 2,903 86		
Diabursements	6,329 31 3,186 82	2 149 40	
Balance		3,142 49	674 96
SEWER DISTRICT NO. 11—		***	
Overdrawn' Rec'pts from County Treas., District Tax Delting't "	1,289 25 764 87	568 62	•
Disbursements	2,054 12 1,278 50		
Ralence		775 62	907: 00

SEWER DISTRICT NO. 3, E. CLEVELAND— Receipts Disbarsements. Balance	\$3,180 88 2,525 51		<b>\$6</b> 54 82
PROSPECT STRET—  Balance Diabursements Receipts	6,632 00 4,861 90	\$8,982 88 1,750 10	
Balance PERRY STREET—	-	1,100 10	2,182 78
Overdrawn. Receipts. Disbursements.	5,859 50 2,896 01	2,431 38	
Balance	· ;-	8,463 49	1,092 11
ERIE STREET—  Balance	228 53 83 98	468 58	
Balance		139 55	328 98
BALANCE RECEIPTS RESERVED BALANCE RECEIPTS DISDURSEMENTS.	6,874 05 8,487 12	NS3 64	
Balance CEDAR AVENUE, EAST CLEVELAND—		3,386 98:	4,220 57
Balance. Receipts. Disbursements	2,408 07 876 00	18 87 1.582 07	
Balance	-		1,550 94
Balance. Receipts Disbursements.	1,165 95 396 00	896 62 829 95	
Balance  BUCLID AVENUE, WEST OF ERIE— Balance  Receipts	9,459 77	371 23	1,165 57
Disbursements Balance	8,927 00	582 77	904 00
GARDEN STREET— Overdrawn. Receipts Disbursements.	28,324 13 14,980 00	7,541 11	
Balance		11,344 13	3,803 02
CENTRAL PLACE— Overdrawn. Receipts Disbursements.	18,138 85 14,805 00	682 20	
Balance.		3,383 85	2,701 65

	•		
Overdrawn.  Receipts	\$10,119 90	\$2,495 31	
Disbursements	6,090 00	4,089 90	\$1,594 (
			Arthur :
OND STREET DAMAGES— Overdrawn. Receipts Disbursements.	51,804 92 44,905 71	2,755 50	•
Balance		6,899 21	4,143
HESTNUT RIDGE MACADAMIZING-			
Balance Receipts Disbursements	6,985 11 6,482 96	74 76	
Balance		502 15	576
AIRFIELD STREET—			
Balance. Disbursements Balance.	-	650 32 75 00	575 :
OUTH LOGAN STREET, BR. SEWER-			
Balance	72 48 52 00	240 20	
Balance.		20 48	280
ENTRAL WAY BRANCH SEWER-			
Balance. Disbursements Balance.	-	1,460 81 52 02	1,408
VILLSON AVENUE DAMAGES-			
Balance Disbursements Receipts	9,598 74 7,787 08	1,891 48	
Balance		1,861 66	29
NTARIO STREET— Overdrawn	F 800 100	1,099 36	
Receipts	5,908 82 4,216 00	1,690 82	
Balance  EFFERSON STREET—	=		591
	W WO 4 45	1,480 87	
Overdrawn Receipts	7,724 45 6,067 60		
Overdrawn Receipts Diabursements.	6,067 HO	1,656 85	216
Overdrawn Receipts	4,200 61	908 58	216

COMMERCIAL STREET, MAIN SEWER-			
Balance Disbursements. Receipts	\$8,816 09 1,959 58	\$1,362 81	
· · · · · · · · · · · · · · · · · · ·		1,356 51	
Balance	-		\$ 5
SUPERIOR STREET REPAVING-			
Receipts Disbursements Balance	4,082 73 3,990 00		<b>82</b>
T. CLAIR STREET DAMAGES—			
Overdrawn Receipts Disbursements	46,563 39 19,260 00	25,953 67	
Balance		27,303 39	1.349
AYNE AVENUE OPENING-			
Overdrawn Receipts Disbursements.	107,275 89 100,049 75	648 70	
Balance.		7,226 14	6,577
ENECA STREET DAMAGES-			
Overdrawn	13,026 45	236 23	
Disbursements.	12,694 49	331 96	
Balance	-		95 '

Respectfully submitted,

S. T. EVERETT,

City Treasurer.

## ANNUAL REPORT

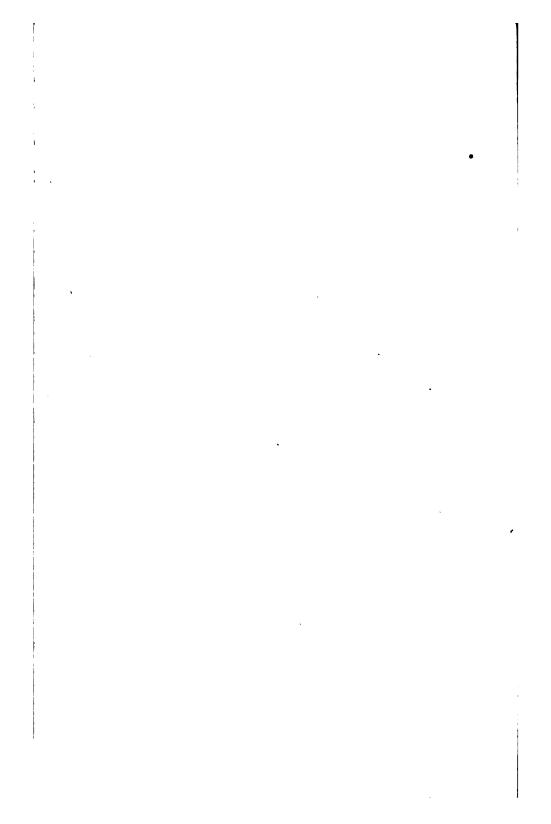
OF THE

# SINKING FUND COMMISSIONERS,

OF THE

CITY OF CLEVELAND,

FOR THE FISCAL YEAR 1878.



## REPORT OF

# SINKING FUND COMMISSIONERS.

To the Honorable City Council:	
GENTLEMEN: -The Sinking Fund Commissioners, pliance with law, submit their Seventeenth Annual R	
The gross income for the year is	18,275 08 650 00
Leaving the net income	17,625 08
The following statement from the books of the Boar the receipts and expenditures of the year:	d shows
RECEIPTS.	
Jan. 11—For quarterly dividend on \$200,000 N. Y. C. & H. R. R. stock, (2 per cent.),	4,000 00
Feb. 1—For semi-annual dividend on \$700,000 L. S. & M. S. R'y stock, (2 per cent.),	14,000 00
April 1—For semi-annual interest on \$83,500 C., P. & A. R. R. 7 per cent. bonds.,	2,922 50
For semi-annual interest on \$52,500 L. S. R'y 7 per cent. bonds,	1,837 50
For semi-annual interest on \$276,000 L. S. & M. S. R'y 7 per cent. bonds,	9,660 00
For semi-annual interest on \$17,000 L. S. & M. S. R'y 7 per cent. bonds,	595 00
For semi-annual interest on \$40,000 City of Cleveland	T 100 00

Apr.15—For	quarterly dividend on \$200,000 N. Y. C. & H. R. R'y stock, (2 per cent.),	\$4,000 00
June 1—For	semi-annual interest on \$25,000 C. & I. R. R. 7 per cent. bonds,	875 00
For	semi-annual interest on \$52,000 L. S. & M. S. R'y 7 per cent. bonds,	1,820 00
For	semi-annual interest on \$250,000 C. & N. W. R'y gold 7 per cent. bonds,	8,750 00
For	premiums on \$8,750 gold interest,	65 63
July 1—For	semi-annual interest on \$37,500 C., P. & A. R. R.	
	7 per cent. bouds,	1,312 50
For	semi-annual interest on \$39,000 J. & F. R. R. 7	
For	per cent. bonds	1,365 00
1 ()1	7 per cent bonds,	10,500 00
For	semi-annual interest on \$15,000 City of Cleveland	-
	6 per cent. bonds,	450 00
For	interest on deposits,	909 75
For	Jamestown & F. R. R. bonds matured,	9,000 00
July 15—For	quarterly dividend on \$200,000 N. Y. C. & H. R. R'y stock, (2 per cent.),	4,000 00
Aug. 1-For	semi-annual dividend on \$700,000 L. S. & M. S.	
	R'y stock, (1 per cent.),	7,000 00
For	net proceeds of sales of bonds as follows:	
	For L, S. & M. S. R'y, due 1899, \$3,000, at \$1.11, \$3,330 00	
	For L. S. & M. S. R'y, due 1899,	
	\$12,000 at \$1.1034, 13,290 00 For L. S. & M. S. R'y, due 1899.	
	\$37,500 at \$1.10½, 41,437 50	
	For C., P. & A. R. R. 2d mortgage, due 1880, \$37,500 at \$1.02\frac{1}{2}4, . 38,531 25	
	For C., P. & A. R. R., due 1892,	
	\$10,000 at \$1.10 1/4,	
	\$73,500 at \$1.10½, 80,941 88	
	Total, \$188,555 63	•
	Less commissions on \$173,500, Par Value of above bonds @ 'sper cent. 216 89	
	***************************************	188,338 74

SINKING FUND COMMISSIONERS' REPOR	т. 1	191
Oct. r—For semi-annual interest on \$276,000 I. S. & M. S. R'y 7 per cent. bonds,		· •
For semi-annual interest on \$17,000 L. S. & M. S. R'y 7 per cent, bonds.	595	00
For semi-annual interest on \$40,000 City of Cleve- land 7 per cent. bonds,	1,400	00
Oct.15—For quarterly dividend on \$200,000 N. Y. C. & H. R. R'y stock (2 per cent.)	4,000	ου
Dec. 1—For semi-annual interest on \$250,000 C. & N. W. R'y	8,750	00
For semi-annual interest on \$52,000 L. S. & M. S.		
R'y 7 per cent. bonds,	1,820	oo
7 per cent. bonds,	86,000	
For interests on deposits,	3,823	
1879. Jan. 1—For semi-annual interest on \$30,000 Jamestown & F.		
R. R. 7 per cent. bonds	1,050	00
land 7 per cent. bonds	10,500	00
land 6 per cent. bonds	375	00
For cash on deposit January 3, 1878, as per report, ,	21,857	21
Total -	<b>\$</b> .123.507	78

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### EXPENDITURES.

1878.		
Apr. 3-For paid express charges on interest coupons to New		
York,	\$ 11 2	25
June 1-For paid express charges on interest coupons to New		
York	9	00
July 1—For paid express charges on interest coupons to New York	9	00
For paid \$25,000 Water Works bonds due (less \$2,500		
in Sinking Fund)	22,500	00
Aug. 8—For paid express charges on \$173,500 bonds forwarded		
to Chase & Atkins, New York, for sale	130	50
Oct. 1-For paid express charges on interest coupons to New		
York	7	50
Dec.31—For amount forwarded to New York to pay Water		
Works bonds due January 1, 1879		
For paid expenses for the year	650	00
For cash on deposit	190	53
Total	\$423,507	78
The following items constitute the Sinking Fund, 2 1879:	January	1,
7,000 shares stock L. S. & M. S. R'y Co., par value	\$700,000	00
2,000 shares stock N. Y. C. & H. R'y, par value	200,000	ου
L. S. & M. S. R'y 7 per cent, bonds, par value	345,000	00
C. & N. W. R'y gold 7 per cent. bonds, par value	250,000	00
Jamestown & F. R'y 7 per cent. bonds, par value	30,000	00
Cin. & Ind. R. R. 7 per cent. bonds, par value	25,000	00
Cleveland City Water Works 7 per cent. bonds, par value .	300,000	oυ
Cleveland City Water Works 6 per cent. bonds, par value	12,500	00

### SINKING FUND COMMISSIONERS' REPORT.

Cleveland City House of Correction 7 per cent	•
Cash on deposit ,	
	\$1,902,690 53
Less bills payable	86,000 00
Total,	\$1,816,690 53
Respectfully submitted	d,
н	. B. PAYNE,
C	HARLES HICKOX,
W	. BINGHAM,
J.	H. WADE,
Sinkir	g Fund Commissioners.

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### ANNUAL REPORT

OF THE

# CITY CLERK,

FOR THE

YEAR ENDING DEC. 31st, 1878.

• .

# CITY CLERK'S REPORT.

To the Honorable City Council:

GENTLEMEN:—I have the honor herewith to submit a detailed report of the cost of advertising and of printing and stationery supplies furnished to the several Departments of the Municipal Government during the fiscal year ending December 31, 1878, together with a statement showing the annual expenditure for the same class of supplies for the past four years.

The system of purchasing and ordering supplies of this kind, inaugurated last year under the provisions of an ordinance, entitled "An ordinance to regulate the ordering of printing, and the ordering and purchasing of stationery, blank work of all kinds, and other office supplies," passed December 10, 1877, has been carried out with the most satisfactory results, not only in effecting a very considerable reduction in the expenditure, but in making it possible to keep a systematic account, whereby any errors may readily be detected and rectified, and in guaranteeing the quality of the supplies furnished.

The aggregate reduction of the expenditure on this account, as compared with that of the preceding year, 1877, has been \$1,378 20, or \$6,955 64 less than the average annual expenditure for the four years from 1875 to 1878, inclusive.

The quality of supplies furnished the city has been fully up to the requirements of the contract in each instance.

The following table shows the amount charged to each Department on account of advertising ordered during the year: City Clerk's Department......\$2,218 29 Civil Engineer's Department..... 261 84 Auditor's Department..... 151 71 Mayor's Department..... 478 21 Markets.... 17 48 Water Works Department..... 64 00 Fire Department..... 48 73 14 65 Treasurer's Department..... 4 50 Board of Improvements..... 4 13 25 60 Infirmary Department..... 57 41 Harbors and Wharves..... 16 00 Police Department..... 3 00 Health Department ..... 60 Total......\$3,366 15

The following table is an exhibit of the amount charged in each Department, for the several items specified, during the year 1878:

ere ir r i rene	Blank Books.		Printing.		Papers and Envelopes.		Stationery, Sundries.	Lithographing.		Engineer's Supplies.	Totals.	
Mayor. Board of Improvements. Fire Department Police Department. Police Court Workhouse. Infirmary Department. Water Works Department Auditor's Department Treasurer's Department City Clerk's Department. Solicitor's Department. Solicitor's Department. Solicitor's Department. Solicitor's Department. Solicitor's Department. Solicitor's Department. Holicitor's Department. Solicitor's Department. Holicitor's Department. Holicitor's Department. Holicitor's Department. Holicitor's Department.	169 9 103 3 81 145 397 4 51	44 84 50 74 96 62 00	80 654 62 251 83 311 912 39 845 206 12 9	00 05 50 75 25 80 05 25 60 00 00	\$ 79 68 9 4 4 1 53 12 49 17 5 3	00 97 79 50 13 35 31 64 75 46 32 56 48	20 13 35 55 45 23 17 99 21 66 7 35 42 22 3 28 17 99 15 8 31 2 00	\$ 14 10 620 36	80 87 50		112 402 1,774 44 1,302 227 3, 181 44 16 137	06 10 82 73 51 76 24 69 54 45 05 02 36
Total	\$1,033	92	\$3,791	25	\$254	01	\$253 54	\$683	67	\$50 2	\$6,066	62

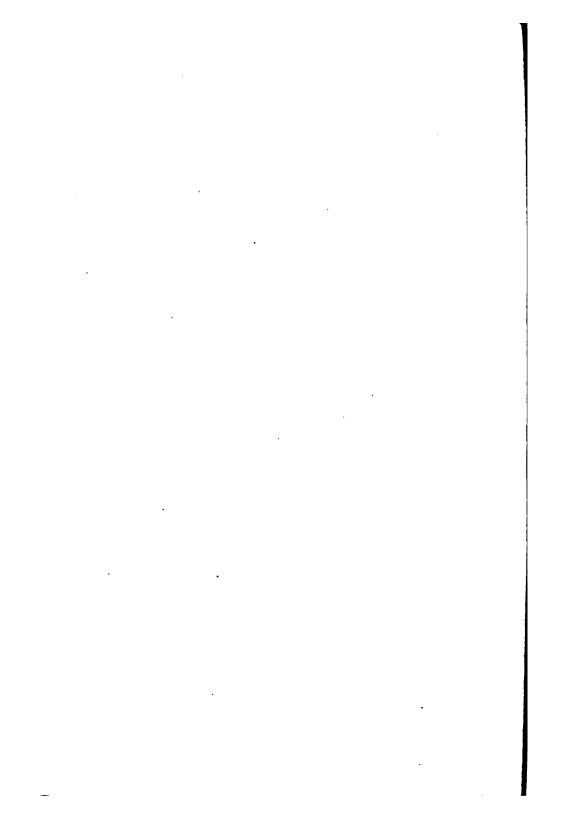
The annual expenditures for advertising and for stationery supplies and printing for the four years from 1875 to 1878, inclusive, have been as follows:

		<del></del>	
	PRINTING AND STATIONERY.	ADVERTISING.	TOTALS.
1875 1876 1877 1878	\$9,164 60 9,697 29 6,817 52 6,066 62	\$16,080 91 10,367 10 3,993 45 3,366 15	\$25,245 51 20,064 39 10,810 97 9,432 77

Respectfully submitted,

W. H. ECKMAN,

City Clerk.



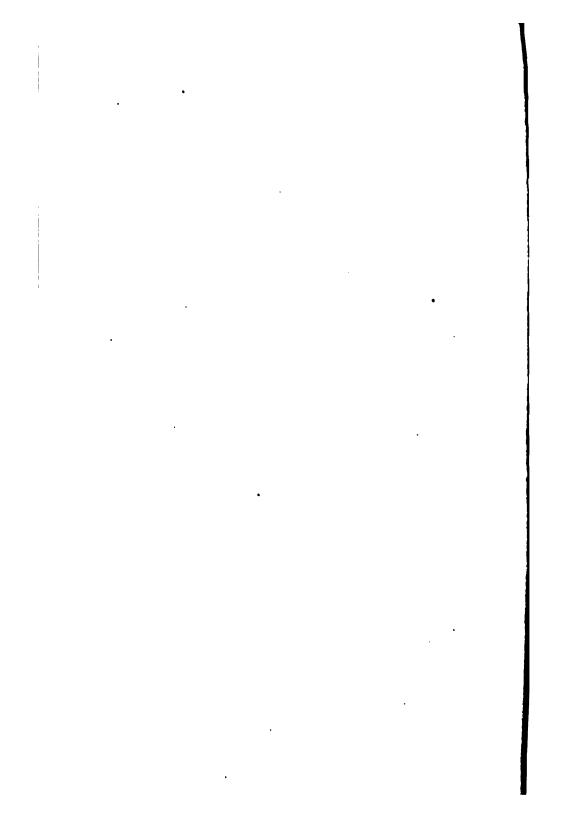
## ANNUAL REPORT

OF THE

# CITY SOLICITOR

FOR THE

YEAR ENDING DEC. 31st, 1878.



# CITY SOLICITOR'S REPORT.

To the City Council;

I beg leave to submit herewith my fourth Annual Report. The office of the City Solicitor has experienced a great increase of official business since I came into possession thereof. To give some information on this point I refer to the tables embodied herein.

At the beginning of the year 1874 there were pending in the several Courts of the county and State, in which the city was directly interested as a party, 80 cases, and at the beginning of the year 1878 there were pending 154 cases, almost double the number there were in 1874. In the year 1874 there were pending and new cases commenced during the year, 160 cases; in the year 1878 there were pending, and new cases commenced during the year, 252, almost double the number. The increase has been very great. This increase in the litigation of the city has been caused chiefly by the efforts on the part of property owners to restrain the collection of special assessments levied and assessed to pay the cost and expense of special improvements. During the period of prosperity many improvements were made for which the taxpayers, at the time, felt abundantly able to pay but when times grew hard and business came to a stand still. these same taxpayers were led to contest the tax for the payment of the costs and expense of these same improvements. This greatly increased the litigation in which the city was engaged. The city still has numerous tax cases pending in the Court of Common Pleas, the District Court and the Supreme Court, awaiting final decision. The cases recently decided by the Supreme Court are Kelly vs. Cleveland, Johnson vs. Cleveland, S. O. Griswold vs. Cleveland, and Wm. C. Scofield vs. Cleveland. The main point upon which these cases were decided against the city was the non-designation of the territory (to be taxed for street improvements) not bounding or abutting on the improvements, by the Board of Improvements or City Council.

Another important principle settled by these decisions is that unallotted lands must be, in the mind's eye, if not in fact, allotted for the purposes of assessing a special tax thereon; that is to say, that unallotted lands can be assessed only to a depth corresponding to the depth of lots on either side thereof, and, of course, this will restrict the city in some cases to a smaller area of taxable lands, for in many instances these unallotted lands run to a considerable depth, say 800 to 1,000 feet, whereas, under the decision of the court, unallotted lands can be taxed by their frontage to about, on an average, 150 to 200 feet deep.

There are other contested points in these cases, but the points I have suggested are the most important ones in my opinion; I will not, therefore, mention others. The amount of pecuniary interests that the city has in these cases will be about \$250,000, but there is a section of the Municipal Code in the following language:

Section 551. "Whenever it shall appear to the Council that any special assessment is invalid by reason of informalities or irregularities in the proceedings, or when any court of competent jurisdiction shall adjudge any such assessment to be illegal, the Council, whether the improvement has been made or not, shall have power to order a re-assessment."

The Supreme Court did not decide that the City of Cleveland has no just claim on the lands assessed for the cost and expense of this improvement, but the decision is simply that the assessment was not legally imposed, and there is nothing yet lost by the city. Of this sum of \$250,000, in which sum I have said the city is interested, the sum of about \$140,000 is taxed on abut-

ting lands, and about \$110,000 on non-abutting lands. So far as the lands bounding and abutting on the improvements are concerned, thus representing about \$140,000, I feel perfectly confident that a re-assessment will hold good in the courts. So far as the assessment on the non-abutting lands, representing about \$110,000, I will frankly say that there is a question. There are good arguments on both sides of the question, and the corporation can do nothing less than make an effort in this direction and let it be submitted to the courts. If such reassessment should finally be sustained by the courts, and collected, there would be no serious results follow, and the property originally taxed and benefited would be obliged to bear the burden. But if the re-assessment could not be sustained in the courts, then about the sum of \$110,000 would go on the grand duplicate, and that amount would have to be paid by the property owners of the city at large.

There are several cases of another kind in the Supreme Court for final decision. These cases are known by the name of "street opening" cases, and include in the list "Sheriff street and Bond street assessments," and involve the same points of law as are raised in the "Payne avenue" cases. These cases were orally argued in the Supreme Court in the month of January. and a decision is daily expected, and may be made and promulgated before this report leaves my hands. What the decision will be is as vet a mere matter of conjecture, but in advance of the decision I can say for a certainty, being authorized so to do by the decision in the case of Meissner vs. Toledo, that the section of the Municipal Code which requires the Board of Improvements or City Council to designate the non-abutting lands to be assessed to pay part of the cost and expense of a "street opening" does not apply to such cases, and therefore we shall not be met by that difficulty in these cases. Speaking of probabilities, I can say that I think it can hardly be held, in any "street opening" case, that there is anything that will prevent us from making a re-assessment, thereby saving to the city any substantial loss in these "street opening" cases. These improvements were made during 1873 and 1874, and some of them previous thereto, under the Municipal Code which took effect in 1869. The Supreme Court had never passed upon these questions, and both my predecessors and myself were sustained in our views of the law by the Court of Common Pleas and the District Court in our county. The Supreme Court has finally set aside the decision of the city officers and the Court of Common Pleas of this county, and the District Court, holding that the manner of assessing the tax for the "improvement of streets" was erroneous, but in no case deciding that the full amount could not be legally re-assessed.

Of course this decision of the Court of last resort will greatly increase the labor of the Solicitor's Department, inasmuch as the work on these assessments will all have to be done over again, in order to charge the property at whose instance the improvements were made, with the cost and expense thereof.

In addition to these cases arising out of the contesting of these special taxes, there have been many other cases begun and a large number disposed of, but there are none of them of which I desire to make special mention, referring to the tables herein showing what cases have been brought and the number tried.

In addition to the litigation thus mentioned there have been many subjects to investigate and arrive at a conclusion upon. There have been referred to the Solicitor, in writing and reported upon in writing, three hundred questions involving important questions in law from the several departments of the city government.

Respectfully submitted,

WM. HEISLEY.

MARCH 24, 1879.

City Solicitor.

### REPORT OF CASES.

### CASES PENDING JANUARY 1, 1878.

On the first day of January, 1878, there were pending in the various State Courts, to which the city of Cleveland was a party, or in which it was interested, one hundred and fifty-four cases, distributed as follows:

s

Leaving one hundred and fifty-five cases pending in said Courts at the close of the year 1878.

#### ANALYSIS OF DAMAGE CASES PENDING JANUARY I. 1878.

Of the cases pending on the first day of January, 1878. fortynine were suits in which damage was claimed for injuries to person and property through the alleged fault of the city.

Amount claimed in these cases:

For Damage to Person\$	65,800	00
For Damage to Property	•	
Total amount claimed.	114.220	

#### ANALYSIS OF DAMAGE CASES COMMENCED DURING THE YEAR 1878.

Of the cases commenced during the year 1878, twenty-seven were suits in which damage was claimed for injuries to person and property through the alleged fault of the city.

Amount claimed in these cases:

For Damage to	Person	.\$	45,000	00
For Damage to	Property		33,285	36
Total amount	aluimad	-	79 995	96

Total amount of damage claimed for injuries to person and property through the alleged fault of the city, in cases pending on the first day of January, 1878, and commenced during said year:

For Damage to Person	<b>\$</b> 110,800	00
For Damage to Property	81,706	05
Total amount claimed	<b>\$</b> 192,506	05

# ANALYSIS OF CASES BROUGHT BY THE CITY, PENDING JANUARY 1, 1878, AND COMMENCED DURING 1878.

The number of actions pending on the first day of January, 1878, and commenced during said year, brought by the city for

various purposes, were *sixteen*. The amounts involved in these cases are as follows:

In five Cases pending January 1, 1878	<b>\$14,172</b>	09
In eleven Cases commenced during 1878	76,254	89
Total amount involved	<b>\$</b> 90,426	98

Three of these cases, before Justices of the Peace, were disposed of during the year 1878, wherein judgments were recovered to the amount of \$393,40.

#### APPROPRIATION CASES APPEALED FROM THE PROBATE COURT.

There are two cases of this character now pending in the Court of Common Pleas, appealed by the claimants from the Probate Court, wherein damages were claimed and awarded in the latter Court as follows:

NAME OF STREET.	AMOUNT CLAIMED.	AMOUNT AWARDED.
Warner Road	\$10,000 00	<b>\$</b> 150 00
Marquette Street	28,000 00	18,034 00
Total	<b>\$36,000 00</b>	\$18,184 00

The amount involved in the various suits for and against the city, pending January 1, 1878, and commenced during the year 1878, exclusive of injunction suits to restrain the collection of special assessments and general taxes levied by the city, and ejectment suits, wherein only real property is sought to be recovered, is:

In cases pending January 1,	1878	\$210,371 18
In cases commenced during	1878	154,540-26
Total amount		*364.911 44

#### INJUNCTION SUITS TO RESTRAIN THE COLLECTION OF TAXES.

Of the cases pending on the first day of January. 1878, and commenced during said year, one hundred and nine were suits wherein it was sought to restrain the collection of special assessments and general taxes levied by the city. The amount involved in these cases is, in round numbers, as follows:

6 cases	s, seeking	to enjoin	general	taxes		.\$	20,000
103 cases	s, seeking	to enjoin	special	assessm	ents	. 1	,500,000
Total	amount			. <b></b>		. \$1	,520,000

#### ANALYSIS OF CASES DISPOSED OF DURING 1878.

Of the cases disposed of during 1878, twenty-seven were suits wherein damage was claimed for injuries done to person and property through the alleged fault of the city.

Amount claimed in the above disposed of cases:

For Damage to Person	\$26,500 00
For Damage to Property	18,085 00
Total amount claimed	<b>\$44.585_00</b>

There was no recovery in the courts on the part of the plaintiff in any of these cases, but two of them were considered meritorious by this Department and the parties settled with without trial. These cases were settled as follows:

Worswick Manufacturing Co. vs. City. for\$300	) ()()
Geo. P. Burwell vs. City, for	3 00
Amount received by said parties	2 00
Amount claimed by parties litigating the City during	
the year 1878 in the disposed of cases	5 00

A few of the leading cases disposed of during the year 1878 in favor of the city, are as follows:

I. Hanna et al. vs. The City, in the District Court, wherein plaintiffs claimed \$6,000 damage to their oil refining establishment by reason of the city's building a large embankment in front of their works in the improvement of Jennings avenue,

whereby the free circulation of air over their works was retarded, to their serious damage in the refining of oil, was decided in favor of the city.

- II. Kilcoyne vs. The City, in which the plaintiff claimed \$3,000 damage for injuries received in falling over a defect carelessly left by the City on a sidewalk on Vermont street, was decided by a jury for the city.
- III. Cleveland and Willoughby Plank Road vs. The City, wherein the Plank Road Company asked \$3,000 damages from the city, because the latter so negligently and improperly graded, paved and improved Euclid avenue, between Fairmount street and the easterly limits of the city, as to stop travel on plaintiff's plank road, to its serious injury, was decided in favor of the city.
- IV. McCarty rs. The City, for constructing and maintaining a sewer in Center and Spruce streets in such a negligent and improper manner that the same stopped up and flooded plaintiff's cellar, whereby he suffered damage, in his house and otherwise, in the sum of \$500, was decided for the city.
- V. Reis et al. vs. The City, wherein plaintiff and wife claimed \$3,000 damages for being precipitated from a high embankment on Tod street, which the city at night had left improperly guarded, during the time it was improving said street, the jury rendered a verdict of \$150 in favor of the plaintiffs, but the same was set aside by the Court as being against the law. Before the case was brought to trial the second time, it was settled by the contractor improving the street, without loss to the city.
- VI. Curroll vs. The City, for permitting a sidewalk on Hanover street to get out of order, whereby the plaintiff slipped into a trench or hole, without fault on her part, to her alleged damage of \$10,000, was decided by the jury in favor of the city.
- VII. Walsh cs. The City, in which the plaintiff claimed \$2,000 damage to her property on Ohio street, because the city allowed a nuisance to be maintained on the Haymarket, so-called, was decided for the city.

- VIII. Stanton vs. The City, for injuries received by the plaintiff, a prisoner at the Workhouse, through the alleged fault of its officers in giving the plaintiff improper apparatus to work with, whereby he was damaged in the alleged sum of \$5,000, was decided for the city. This case is important as deciding the legal principle that the city is not responsible for the negligence of the officers of the Workhouse, and thereby decided other cases against the city in its favor, involving fully \$25,000.
- IX. Nixon vs. The City, wherein plaintiff asked \$5,000 damage for not keeping up proper protection at bridge approaches on the part of the city, whereby plaintiff's horses, wagon and merchandise were precipitated into the Cuyahoga river, was decided on demurrer in fayor of the city.
- X. Pears vs. The City. for damage done to the plaintiff in the sum of \$5,500 in being thrown from a buggy, the horse attached thereto taking fright at a steam roller the city left standing at the side of Sterling avenue, and running away, was decided in favor of the city.
- XI. The State, for, etc., vs. The City, being a suit against the city for the use of an armory building rented by a military company within the city without the authority or knowledge of the city, was decided on demurrer in favor of the city.

Various Taxpayers vs. The City, representing forty-two suits wherein numerous taxpayers sought to enjoin the City and County Treasurer from collecting the special assessments levied by the city for the following improvements: Bond street extension, Sheriff street extension, Broadway paving, Summit street extension, Kinsman street paving, Willson avenue grading, Superior street widening, Superior street grading, Hamilton street sewer, Chestnut Ridge street macadamizing, Jennings avenue grading, Woodland avenue widening, Woodland avenue paving, Willson avenue extension.

In each of these cases the city was successful excepting in three instances—Kinsman street paving, Summit street extension, and Superior street widening—where the court gave the plaintiffs

small abatements from the assessments as levied by the city, on the ground that the assessments exceeded twenty-five per centum of the value of the lots and lands assessed after the improvements were made.

In these cases the city succeeded in dissolving injunctions restraining the collection of nearly \$500,000 of special assessments that had been tied up two and three years.

#### PROBATE COURT BUSINESS.

There were *four* cases disposed of in the Probate Court during the year 1878, to appropriate land for school and bridge purposes, and ascertain damage done to abutting property by reason of grading the streets in front thereof.

#### APPROPRIATION CASES IN PROBATE COURT.

The following is a list of the cases tried to appropriate land for school and bridge purposes during the year 1878:

NAME OF CASE.	IMPROVEMENT.	AM'T OF AWARD.
Board of Education vs. Mary Slade		\$4,780 00 800 00
Total		\$5,380 00

#### VALUE OF LAND APPROPRIATED SINCE 1872.

To show the immense amount in value of land appropriated for street, park and other purposes during the various years since 1872, when the law was changed allowing the cost and expense of a street opening or widening to be specially levied upon the property benefited, I append the following table:

Value	of land	appropr	iated in	1872*	742,871	63
				1873		
••	••	• •	••	1874	247,425	77
••	••	**	••	1875	169,711	52
••	••	••	••	1876	58,799	91
				aduct east of river and near	318,186	00
Value	of land	appropr	iated in	1878	5,360	00

#### STREET GRADING CASES.

The following are the cases tried in the Probate Court to assess the damages done to property owners caused by grading and improving streets during the year 1878:

NAME OF STREET.	DAMAGES CLAIMED.	DAMAGI AWARDE	
Warner Road	\$ 2,000 00	Jury Disa'	g'ed
Woodland Hills Avenue	22,900 00	\$2,220 4	5
Hamilton Street	2,500 00	<b>350</b> (	10
Total	\$27,400 00	\$2,579 4	15
Number of cases tried during the year.	-		3
Amount of damages claimed	-	\$27,400	00
Amount of damages awarded, -	•	2,579	45
Percentage of award upon amount claime	d, -		91
The remaining cases disposed of during	the year	r 1878 w	ere
principally equity and error proceedings	, wherein	relief	was
sought, but no pecuniary compensation de			
CASES DISPOSED OF DURING  The nature of the proceedings in the das follows:		of cases	was
Injunction suits, enjoining the collection of	of taxes		42
Damage suits, for injury to person -			8
Damage suits, for injury to property	_	٠.	7
Action to subject land			3
Actions on contracts			3
Actions to recover real estate			3
Suits on verified claims	_		3
Suits when city was garnishee	-		3
Suits to recover taxes illegally collected		-	3
Suits to recover personal property -	-	_	2
Street damage suits in Probate Court		_	$\frac{-}{2}$
The state of the s		-	~

Appropriation suits in Probate Court

REPORT OF THE CITY SOLICITOR.		215
Suits for water rent		2
Suit on award	-	1
Suit for rent of armory	-	1
Injunction suit, enjoining removal of ground	-	1
Injunction suit, enjoining Auditor		1
Suit upon information	-	1
Error case to Police Court		1
Appropriation case, appeal from Probate Court	_	1
Suit to remove obstruction from street -		1
Action for wages - '	-	1
Error to Probate Court		1
Suit for injury to refinery		1
Suit as to right of way of railroad -	-	1
Total number of cases disposed of during 1878,	•.	95
cases pending december 31, 1878.		
Nature of the cases pending in the various courts	at the	e close
of the year 1878:		
Injunction suits, enjoining special assessments.		- 61
Damage suits, for injury to property.		16
Damage suits, for injury to persons,		. 14
Error cases to Police Court.		10
Cases for equitable relief,		. 9
Injunction suits, enjoining general taxes.	-	6
Actions to subject lands,		. 5
Cases where city is garnishee,	-	5
Actions on contract with city,		- 3
Actions to recover real estate and damages,	-	3
Suits against the city as garnishee,		- 3
Appropriation cases, appeal from Probate Court,		3
Actions for possession of personal property.		. 2
Suits for street railroad assessments.	_	$\frac{-}{2}$
Suits to recover taxes illegally collected, .		. 2
Suits for taking real property.		2
Suits on appropriation awards.		. 9

### CITY DOCUMENTS.

Suits to recover money paid for extra services,		2
Suits against the city for wages,		2
Actions on bonds given to the city,		2
Suit for grading damage, error to Probate Court,	-	1
Suit to recover general taxes on personal property.		1
Suit to enjoin removal of building.	-	1
Action for rental of land,		1
Action on account,	-	1
Street damage case pending in Probate Court.		I
Total number of cases pending December 31, 1878	-	160

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	Year End-Year End-Yea	Year End- ng April 1. 1871.	Year End- ing April 1, 1872.	Year End- ing Dec. 31, 1873.	Year End- ing Dec. 31, 1874.	Year End- ing Dec. 31, 1875.	Year End- ing Dec. 31, 1876.	Year End- ing Dec. 31, 1877.	Year End- ing Dec. 31, 1878.
(ases Tried	ıc	<b>a</b>	23	23	5.	=	15	11	m
Dumares Claimed	\$34,189 00	\$122,775 00	\$63,040 00	\$54,189 00 \$122,775 00 \$88,080 00 \$31,979 00 \$99,475 00 \$44,186 25 \$157,441 (0 \$105,685 00 \$27,410 00	\$99,475 00	\$44,178 3S	\$157,441 (0	\$105,685 00	\$27,400 00
Damages Awarded	<b>8</b> 6,489 00	\$23,078 00	\$16,794 00	\$6,000 00 \$23,078 00 \$16,704 00 \$6,749 85 \$21,238 25 \$2,400 00 \$18,143 29 \$3,138 12 \$2,579 45	% 8% 1% % 8% 1%	\$2,460 U	\$18,143 29	\$3.138	\$2,579
Per Cent. Awarded on Amonut	%0%	<b>18</b>	ន	ক	7,12	75	11%		) 3.

I ALSO PRESENT THE FOLLOWING TABULAR STATEMENT OF THE AMOUNT SOUGHT TO BE RECOVERED, AND THE AMOUNT ACTUALLY RECOVERED, IN THE DISPOSED OF CASES AGAINST THE CITY FOR THE PRECEDING NINE

DISPOSED OF CASES.	Year End. Ing April 1, Ing April 1, Ing April 1, Ing April 1, Ing Dec. 31, Ing Dec.	Year End-	Year End- ing April 1,	Year End- ing Dec. 31, 1	Year End- ing Dec. 31,	Year End- ing Dec. 31,	Year End- ing Dec. 31,	Year End- ing Dec. 31,	Year End- ing Dec. 31
Number of Cases.		1871.	38.	1812. 46	70		18/6.		187.8.
- Amount Chaimed	<del>'</del>	\$51,500 00	\$16,150 00 \$61,500 00 \$25,817 20 \$10,500 00 \$34,987 00 \$114,779 00 \$40,447 07 \$98,226 00 \$44,585 00	\$10,500 00	\$34,967 00	\$114,379 00	\$40,447 07	\$98,285 00	\$44,585 00
Amount Recovered	<u> </u>	\$240 00 \$1,000 00	\$395 14	\$395 14 \$1,650 00	\$767 00	\$767.00 \$250.00 \$9,079.25 \$4,428 92	\$9,079 25	\$4,426 92	\$412 00

This statement is not perfect, as there was no report for the year ending December 31, 1873, owing to the illness of the them (ity Solicitor. The municipal year formerly closed April 1st of each year, while it now closes with December 31st of each year.

#### A FURTHER STATEMENT FOR THE LAST FIVE YEARS IS AS FOLLOWS:

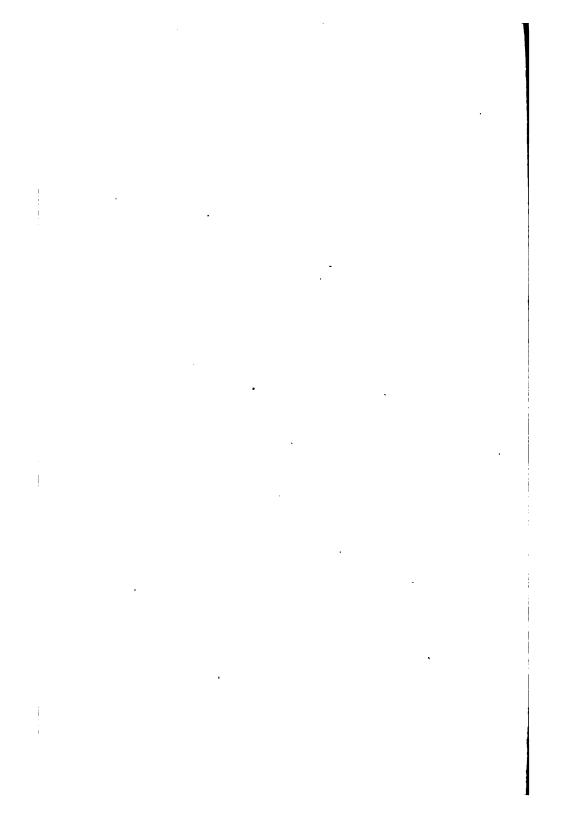
1	1874.	1875.	1876.	1877.	1878.
Amount Sought to be Recovered in Cases Pending at the Close of the Year	\$131,620 00	\$144,698 17	\$151,671 28	\$124,335 00	\$820,326 44
Amount Sought to be Recovered in Cases Pending at the Be- ginning of and In- stituted During the Year.		\$259,079 17	\$192,118 07	\$212,600 00	<b>\$</b> 364,911 44

The last two statements do not contain the amount claimed and awarded in cases brought by the city for the appropriation of real property for street and other purposes, nor the amount of damages claimed by and awarded to property owners for grading and improving streets, as these amounts are paid by special assessments levied upon benefited property and not by general taxation.

#### GENERAL STATEMENT OF CITY'S LITIGATION.

For the purpose of showing the extent and increase of the city's litigation during the past *eight*—years, the following statement is presented:

	1871.	1872.	1873.	1874.	1875.	1876.	1877.	1878.
Cases Pending at Beginning of Year.	35	17	37	81	90	. 99	114	154
Cases Commenced During the Year	28	59	90	79	98	109	125	98
Cases Pending at Beginning of Year, and Commenced Dur- ing Year.	63	76	127	160	186	208	. 239	252
Cases Disposed of During the Year	46	39	46	70	87	94	٨ō	97
Cases Pending at End of Year.	17	37	81	90	99	114	154	155



### TWENTY-THIRD

# ANNUAL REPORT

OF THE

### BOARD

oF



TO THE

# CITY COUNCIL

OF CLEVELAND, O.

. . .

### REPORT OF

# TRUSTEES OF WATER WORKS.

To the Honorable the Mayor and Council of the City of Cleveland:

GENTLEMEN:—We have the honor of herewith presenting for your consideration the Twenty-third Annual Report of the Board of City Water Works, and so vital are the interests of this Department to the city, and its citizens at large, that we ask from your honorable body a careful perusal of all the reports hereto appended from the various heads of the Department, believing that you will find them full, explicit and correct in all their details.

We believe the Department to be in a very prosperous condition and so substantially provided in all its equipment that no needed outlay will be demanded for many years, other than for general pipe extensions, the repairs on the crib, and the usual expenses of ordinary repairs.

We feel that the efficiency of the present officers in charge, and their diligent and faithful assistants, are deserving of much commendation, and the present efficiency of the Department is largely due to their faithful performance of duty.

The duties, especially of the Engineer in Chief, have the past year been exceedingly arduous, owing to the destruction by storm (as referred to in his report) of a portion of the superstructure at the crib. We are in question as yet whether fault can be attached to any one on account of the damage accruing to this structure at the time of the storm referred to, but have the matter fully under advisement, and trust that at an early day we may be able to report to your honorable body a full statement of all the facts and conclusions arrived at. This we propose to do as early as the season will permit of a thorough examination by experts.

We are happy, however, to report that the sub-marine structure is in no way impaired, except as stated in the Superintendent's report, and can easily be made solid and permanent. We consider the structure, as a whole, as now protected, in a safe condition, and the repairs to be made can be done at the most propitious time without hurry or inconvenience to the regular routine of the ordinary demands of the Department.

The former ghastly appearance of the grounds about the pumping works have been much improved by laying out of the grounds, tree planting and sodding, and also providing against the flooding by surface water from the high bluffs in the rear.

The financial condition of the Department, as set forth by the Secretary, fully meets our expectation, and exceeds by several thousands of dollars his own estimate, as intimated in his former report. Exactness and cleanness are the characteristics of this office, and must meet the approval of all citizens.

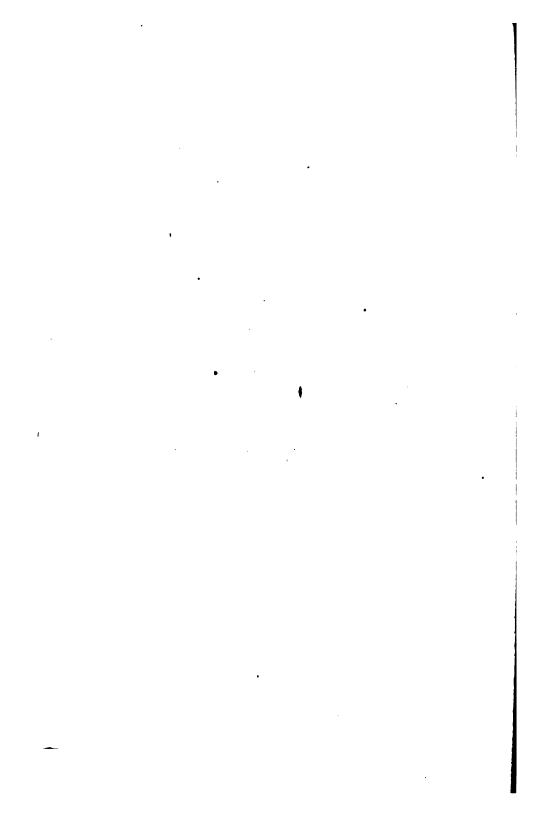
A careful inspection at any and all times at the pumping works will reveal to the most critical the perfect order and decorum prevailing there. The improvements in new boilers at these works, to which Mr. Doty, the engineer in charge, refers in his report, are of the most substantial kind, and have ample steam capacity for present needs and abundant reserve for any emergency. We believe they were wisely planned and skillfully made, and from tests thus far fully meet our expectation.

With all the working departments under the direct supervision of the Engineer in Chief, with his practiced eye and habits of industry and economy, we feel we can be speak for the future continued prosperty, and at no distant day a more than self-sustaining department.

All of which is respectfully submitted.

ETHAN ROGERS.
TRUMAN DUNHAM.
N. P. BOWLER.
\* Trustees of Water Works.

Cleveland, March 6th, 1879.



# REPORT OF THE

# Secretary of the Board of Trustees.

# To the Board of Trustees of Water Works:

GENTLEMEN:—In compliance with law I respectfully submit the following Annual Report.

The receipts and disbursements of this Department for 1878 and balances of cash are as follows:

## RECEIPTS.

Cash in City Treasury, January 1, 1878		- 1	\$55,328 22
Cash in Water Works Office, January 1, 1878		- 1	236 12
For Water, Including Permits, viz.:		1	
From Assessments	\$115,056	52	
From Meter Measure	45,577	98	
	160,634	48	
Less Amount Refunded	508	78	
		-	160,125 70
For Bills Receivable, Street Sprinkling Certificates			4,375 03
For Interest on Same			481 92
On Pipe Extension Account			919 94
On Office and General Expense Account			105 00
On General Repairs Account			101 69
On Engine House Expense Account			9 00
On Lake Crib Superstructure			1 00
<u> </u>			
Total		1	321,681 ft2

### DISBURSEMENTS.

# BILLS AND PAY ROLLS CERTIFIED TO THE CITY AUDITOR FOR PAYMENT FROM THE WATER WORKS FUND.

For Office and General Expenses.	<b>\$21,73</b> 8	98	
For General Repairs	5,878	33	
For Engine House Expenses	24,353	06	
For Repairs at Engine House	1,057	90	
For Pipe Extension	27,257	58	
For Water Meters	1,729	56	
For Final Payment Engine, etc., (Construction Account)	8,239	87	
For Interest on Deferred Payment on Engine	1,923	50	
For New Boilers, Fittings, and Setting Same	18,838	37	
On Lake Crib Superstructure Account	16,612	86	
On Lake Crib Protection Account	10,920	98	
On Lake Crib Repairs Account	15,619	37	
		-	\$154,170 36
For Payment of Interest on Water Works Bonds		1	35,000 00
Cash in City Treasury Subject to Draft, Jan. 1, 1879		1	31,159 31
Cash in Water Works Office, Jan. 1, 1879		į	1,351 95
<u> </u>		-	
Total	· · • • · · · · · · · ·		\$221,681 62

For a detailed account of the expenditures reference may be had to the statement accompanying the report of the Superintendent and Engineer.

The expenditures for the ordinary running expenses and repairs for the year, after deducting credits to the several accounts and transferring twelve hundred and five dollars and forty cents to the debit of the general expense account—from the meter account for the estimated depreciation in value of water meters from wear and damage, are as follows:

For office and general expenses,	-		-		-	\$22,839 38
For general repairs.		-		-		5,776-64
For expenses at engine house,	-		•			24,344 - 06
For repairs at engine house.				•		1,057 - 90

The receipts for water for 1878 are in excess of the previous year the sum of seven thousand, three hundred and thirty-one dollars and two cents.

I estimate that the receipts for water for the year 1879 will amount to one hundred and sixty-five thousand dollars, and that the ordinary expenses and repairs will not exceed fifty-five thousand dollars.

The present liabilities of the Department, except bonded, are about ten thousand dollars.

The various departments\_of the city enumerated below are supplied with water without charge:

School Department.—Twenty principal school buildings and several smaller ones.

Fire Department.—Eleven engine houses, also eight hundred and seventy-three fire hydrants and a number of cisterns.

Police Department.—The Central and five precinct stations.

Infirmary Department.—The Infirmary on Scranton avenue and office on Champlain street.

 $Workhouse\ Department. -- The\ Workhouse\ on\ Woodland\ avenue.$ 

Water is also furnished without charge to the City Hall building and the elevator used therein, the market houses, parks, cemeteries, armory, for flushing sewers, puddling streets, and for other public uses, requiring in the aggregate a large quantity of water; and in case the same was paid for at tariff rates, the receipts for water would be largely increased.

# LEDGER BALANCE, JANUARY 1, 1879.

FACE OF LEDGER.	DR.	CR.
Construction	\$2,472,978	63
Interest	31,740	73
Water Meters	10,848	68
(Yty Treasurer	31,159	31
Cash	1,351	95
Bonds Outstanding		\$1,300,000 00
Bonds Redeemed	.	425,000 00
Water Rent Income	-	774,605 70
City of Cleveland	.	48,473 60
	-	
Total	\$2,548,079	30 \$2,548,079 30

## BONDED DEBT.

The bonded debt of the city for Water Works purposes has been decreased during the year by the payment from the Sinking Fund of four hundred and twenty-five thousand dollars of matured bonds, leaving the amount of outstanding bonds as follows:

Six Per Cent. Bonds Due July 1, 1879	\$ 25,000 00
Seven Per Cent. Bonds Due October 1, 1880	75,000 00
Seven Per Cent. Bonds Due January 1, 1881.	100,000 00
Seven Per Cent. Bonds Due January 1, 1884	300,000 (0
Seven Per Cent. Bonds Due May 1, 1892	400,000 00
Seven Per Cent. Bonds Due May 1, 1893	200,000 00
Six Per Cent. Bonds Due October 1, 1895	200,000 00
Total	\$1,300,000 00

The payment of all Water Works bonds that mature on or before January 1, 1884, will also be made from the Sinking Fund.

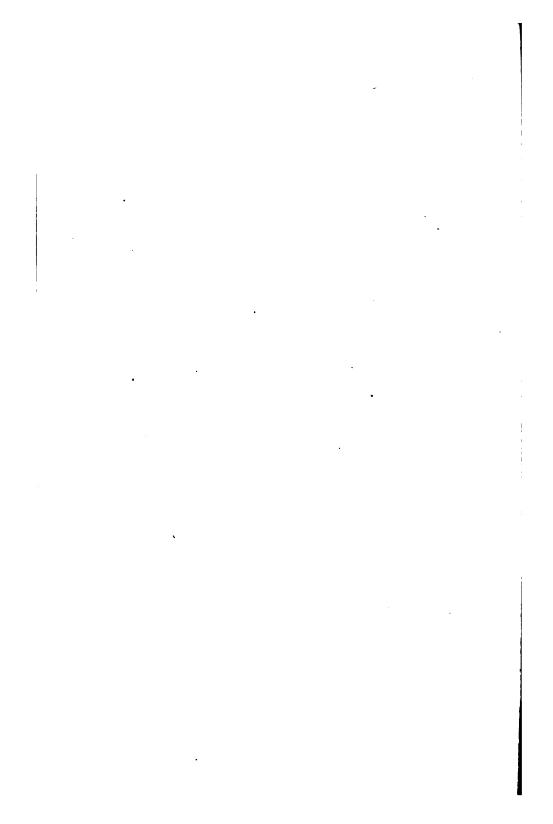
No special provision has been made for the payment of bonds maturing subsequent to that time.

Respectfully submitted,

H. C. HAWKINS,

CLEVELAND, March 6, 1879.

Secretary.



# REPORT OF THE

# Superintendent and Engineer.

To the Board of Trustees of Water Works:

GENTLEMEN:—The undersigned would respectfully submit the following Annual Report upon the condition of the Works under his charge:

#### LAKE CRIB.

The work remaining to be done to complete this structure, at the beginning of the season, was the setting of the two upper courses of masonry on the exterior wall, the building of the top series of brick arches, the putting on of the roof and the completion of the joiner work in the living rooms.

This work, with the exception of the roof, was finished early in July when the outer timber structure was removed by the contractor down to the water line, preparatory to the work of cutting the timbers off on a level about one foot above the base of the masonry. The timbers were then to be plated with heavy boiler iron on the top and down the face to preserve them from the injurious action of ice.

On the 22d day of July and before any of this work could be done a storm came on and carried away the timbers on the north face to a depth of five feet below the water line, exposing some of the loose stones with which the sub-structure is filled, to the action of the waves, and slightly displacing five or six of the outer stones in the foundation. These loose stones were secured from further movement by oak wedges, and steps were taken to replace the timber as early as possible. This it was determined to do in a complete section, as an examination of the lower timbers seemed to indicate that some of them were split lengthwise and that the new work could only be made fast to the old by making it double thickness down to the old work, the outer course to extend four feet deeper, the lower part to be bolted to the old timber, the angles to be secured by iron plates.

Early in September Capt. Geo. H. Breyman, sub-marine diver, was engaged to prepare the top of the old timber to receive the new work and to secure the new timber in place.

Everything had been made ready and suitable weather for doing the work was anxiously awaited, but on the 11th a storm came on and lasted until the night of the 13th. After withstanding the storm for forty-eight hours the stones which had previously been loosened were washed out by the great force of the waves during the morning of the 13th. The waves then having access to the loose stones in the sub-structure the wall was soon undermined and the courses of masonry dropped successively into the cavity thus formed. In this manner the north wall and portions of the east and west walls were carried away.

As soon as the debris could be removed the timber section already mentioned was taken out and an attempt made to put it in place, but before it could be properly secured another storm came on and broke some of the fastenings and to prevent further damage it was towed ashore to await more favorable weather. Nearly a week elapsed before the lake was still enough to make the second attempt which, this time, proved successful, the divers working uninterruptedly for seventy-two hours.

Immediately after the masonry fell preparations were made to rebuild the timber walls up to the roof on the sides that had been carried away. The work proved to be exceedingly tedious and at times almost discouraging on account of the continuous winds and consequent disturbance of the surface of the lake rendering sub-marine work near the surface or work just above the surface impossible, but by taking advantage of every moment, night or day, when the lake was still enough to permit work to be done, it was finally accomplished, the last trip out being made on the 24th day of December. The structure is now considered safe against the action of storms or floating ice.

The work of repairs was under the immediate charge of Mr. John Carnegie, to whose untiring industry, in a great measure, its successful accomplishment is due. Capt. Geo. H. Breyman is also deserving of special mention for his endurance and skill in doing the work under water. The cost of the work will be found in the table of expenditures hereto attached. A large quantity of stone has been thrown into the lake around the Crib. The effect is apparent in the increased stability of the structure during storms.

#### LAKE TUNNEL.

There has been no interruption to the flow of water through the tunnel since its opening five years ago, and for the past year the quality of the water has been unexceptionable. After the accident to the Crib, as a measure of precaution, a heavy covering of oak timber was fastened to the top of the inlet shaft to keep out any material that might fall in case of accident to the inner wall of the Crib.

## ENGINE HOUSES AND MACHINERY.

The Engineer in charge of the pumping works has, in his report, given such a clear statement of the condition of the buildings and machinery under his care that it is not necessary here to add anything to what has been said. The recommendation to paint and repair the north building and the machinery therein contained as soon as the Cornish boilers are set in place, deserves your approval.

#### PUMPING MAINS.

The pumping mains are both in good order, only two insignificant leaks having shown themselves during the year. The surface of Kentucky street hill over the main pipes has been covered with clay to prevent the sand from washing out and undermining the pipes during heavy rain storms.

#### RESERVOIR AND GROUNDS.

The work of cleaning out the Reservoir was commenced April 22d and completed May 2d. While this was being done the water was all drawn off from both compartments at the same time, the supply to the city during the interval being pumped directly through the main pipes. The deposit of sediment was the least ever known, being less than three inches on the bottom and not to exceed one inch on the slopes. So small an accumulation of sedimentary matter during a period of four years is an evidence of the purity of the water furnished since the opening of the lake tunnel, previous to which time the annual deposit averaged about six inches.

The old wooden bridges leading to the valve rods have been removed. A stone slab with gauge marks has been set flush with the slope of the face of the embankment. The fence and railing on the top of the embankment and the fence on the line of Kentucky street received each two coats of paint. The grass on the outer slopes as also on the other portions of the lot was never in better condition.

### PIPE SYSTEM.

Only two serious leaks have occurred in the distributing mains during the year, one of them being an annular fracture in the thirty inch line in Bridge street probably caused by unequal settlement of earth under it and near the line of a main sewer. It was repaired in the usual manner by putting on cast iron clamps over the fracture.

The other leak was in the twenty inch line at the joint next west of the one connecting the river and land pipes opposite the

foot of Superior street and was doubtless caused by the settlement of the pipe under the river. It was repaired by covering the whole joint with a socket clamp and filling the space between that and the pipe with lead.

The total length of pipe of the different sizes from three inches diameter upwards now in use is 113 miles and 2670 feet, 5 miles and 2943 feet having been laid during the past year.

The total number of stop-gates is 1957; of this number 102 were set the past year.

There are now set and in good order 873 fire hydrants, 56 of which were set during 1878.

For particulars as to length, size and location of pipe laid and the location and size of gates and fire hydrants set, see accompanying tables.

#### METERS.

There are now in use 291 water meters. Of this number 43 were set in 1878. The number of each of the different sizes in use is as follows:

	3	-	-	4	inch	-	-	Worthington.
1	13	-		3	• 6			4.
	2	-	-	3		-	-	Union Rotary.
3	35	-	-	2	••	-	-	Worthington.
3	3.5	-	•	1 1		-	-	••
	4	-	-	1 1		-	-	Ball & Fitts Piston.
6	1	-		1	"	-	-	<i>ii</i>
2	7	-		1				Worthington.
3	8	-		3	• 6	-	-	u
7	3	-		3		-	-	Ball & Fitts Piston.
Total, 29	1			_				

In addition to these meters there are 21 hydraulic elevators, to each of which is attached a register that records the quantity of water used.

The quantity of water sold by meter measurement during the year was 431,576,940 gallons. The total quantity pumped was 2,892,946,283 gallons, making the daily average consumption 7,925,882 gallons, an increase of only 198,962 gallons over the daily average for 1877, notwithstanding an increase in the number of service pipes in use of 624.

### SERVICE PIPES.

The number of new service connections made during the year was 603, as follows:

4	inch,		-		-		•		-	4
3	"			-		-		-		1
21/2	46		-						-	l
2	"	-				-		-		5
11			-		-		-		-	4
14	. "	-		-		-		-		1
3					-		-		-	19
ã	"		Ī	•		-		-		568
	$\mathbf{T}_{0}$	tal,			-		. <b>.</b>		-	603

The total number of service pipe connections made with the distributing mains since the construction of the works, with the different sizes of the same, is as follows:

6 in	nch,	٠	-				-		-	l
4	4.6	-		-				-		30
3	"						-		-	31
$2\frac{1}{2}$	"			-		-		-		1
2			-		-		-		-	62
11	"	-		-				-		21
11	"						-			3
1	"	-		-		-		-		104
$\frac{3}{4}$	"		-		-				-	372
ş	"	-		-		-		-		9,417
	Tot	al,			-		-		-	10,042

There are 1,658 service pipes not in use, some of which have been permanently discontinued, others are shut off temporarily. but the greater number have never been extended beyond the curb line of the street.

The number in actual use on the 31st day of December, 1878, was therefore 8,384, making an increase of 624 for the year. This number does not include the service pipes laid in the village of West Cleveland, that corporation being counted as one customer only, the water supplied being measured by an eight inch meter set on the corporation line, as agreed upon by the two corporations.

#### GENERAL.

Pursuant to an agreement made by your predecessors with the corporate authorities of the village of West Cleveland, an eight inch water pipe was laid in Detroit street to the westerly line of the city, and at that point connected with the pipe system previously laid by the authorities of that village. The water passes through an eight inch water meter set on the westerly line of the city, and is paid for semi-annually at this office by the village authorities at the rate of fifteen cents for each thousand gallons registered.

The cost of pumping in 1877 was \$6.02 for each million gallons pumped one hundred feet high. The cost of doing the same work in 1878 was \$5.49. The cost of pumping each million gallons into the resevoir, which is 160 feet high, was therefore  $84\frac{8}{10}$  cents less in 1878 than in 1877.

The items entering into the cost of pumping water will be found under the head of "Engine House Expenses" and "Engine House Repairs" in the appended tables of expenditures.

The amount received for each million gallons of water pumped in 1878 was \$1.10 more than in 1877, which, added to the saving in the cost of pumping, makes the increase in receipts for each million gallons pumped \$1.94 18.

This increase in the amount received is not due to any increase in the water rates, for they remain the same, but is due to a decrease in the amount of water wasted, as will be seen in the table showing the quantity of water pumped each year since

the construction of the works, together with the percentage of increase for each year. In that table it will be seen that the increase for the year 1878 was only  $2\frac{57}{100}$  per cent., while the increase in the number of water takers for the same time was  $7\frac{44}{100}$  per cent. The decrease in water wasted may be attributed partly to the increased number of meters, but mainly to the very mild winter weather falling within the year.

The quantity of pipe that will be required for the coming season will, probably, not greatly exceed that laid in 1878. The funds available for that purpose will be ample.

Respectfully submitted.

JOHN WHITELAW,

Engineer and Superintendent.

CLEVELAND, Feb. 20, 1879.

# REPORT OF THE

# Engineer in Charge Pumping Works.

To the Board of Trustees of Water Works:

GENTLEMEN:—The operations of the Pumping Works have not been interrupted during the year just closed, although important changes have been made involving necessarily much risk at times.

#### BOILERS.

The condition of the boilers in the north building having been set forth in my Report for 1877 and your subsequent action renders it possible for me to report the following important changes and improvements:

The boilers known as the new Cornish have been removed from the south building with a view to placing them in the north building the coming spring where they are much needed and better adapted than in their former place. Their place has been filled with four new boilers of the Marine or return flue variety constructed in a manner best adapted to our circumstances and set with a view to the greatest economy and convenience, adding at least 33 per cent, to the capacity of this building and developing a saving of 20 per cent, in fuel. This work having been begun late in the season (Aug. 8th) two of the boilers are not quite ready for use, but the others have been thoroughly tested and fully meet our expectations.

These boilers were constructed at the Cleveland Steam Boiler Works, Mr. D. Connelly, proprietor, under the direct supervision of Mr. Jacob Newman, long and favorably known in connection with the boiler works of the Cuyahoga Steam Furnace Co. No boiler repairs have been necessary since the new Cornish boilers were rebuilt in 1876. When the present plans are carried to completion viz: The new Cornish boilers placed in the north building the boilers will require no additional expenditure of money for many years and the boiler capacity will be largely in excess of the present engine capacity.

#### CORNISH ENGINES.

At the close of 1877 the main pump to the west Cornish engine was receiving a new lower valve chamber. This work was completed and the engine ready for service February 26th. 1878. Since that time no expense for repairs has been necessary on that engine. The repairs referred to as necessary on the east Cornish engines in my Report for 1877 have been made which places both Cornish engines and pumps in good order.

### CUYAHOGA ENGINES.

June 12th plans were submitted anticipating improvements of some importance in the Cuyahoga engines. After proper consideration these plans were adopted, consisting principally in putting counterbalances upon the main steam valves. This work was completed August 6th, and the performance of the engines since has fully justified the expense incurred, as it secures an additional four inches of stroke, equal to about 10 per cent, with no corresponding expense for fuel. These improvements and some repairs of minor importance constitute all the expense upon these engines excepting the necessary attendance. They are in good repair and are held in reserve ready for service at any moment.

### WORTHINGTON ENGINES.

After two and a half years almost constant service without accident and with very little expense aside from attendance I

can report the Worthington engines in good repair and doing regular daily service. Circumstances incident to changing boilers in this building compelled us to depend upon these engines principally for the supply of water since the 9th of September, and the severe weather the latter part of December required unusual effort to keep up the supply. These engines delivered water into the pipes at the rate of twelve million gallons in twenty-four hours, two million more than their guaranteed capacity, establishing a record that should clear up all doubt in regard to the wisdom of their purchase.

AMOUNT OF REPAIRS AND IMPROVEMENTS UPON EACH ENGINE FOR 1878.

				REPAIRS.	IMPROVEMENTS.
Cuyahoga Engines.	-		-	\$108 - 52	\$627 20
Worthington Engines,		-		46 11	
East Cornish, -	-		-	79 17	
West Cornish		-		$520 \ 35$	

The item under the head of Improvements will be understood as expense incurred in putting in counterbalances, &c., upon the main steam valves mentioned in article on Cuvahoga engines.

## GENERAL.

The improved appearance of the inside of the south building since the walls were finished is more in keeping with the surroundings, but the delay of the contractors in carrying out the plans for gallery and staircase leaves the room still in an unfinished condition. We look forward with much interest to the time when this work shall be completed, as it will give us access to the upper rooms, which have been fitted up for drafting and store rooms.

Since the south building was erected the old house has been somewhat neglected in regard to painting, &c. 1 would, therefore, recommend that when the boilers are in their places and

ready for service the engines, walls and wood work be painted and such other repairs made as are needed upon the building. The coal sheds so long under contemplation are not yet a reality, but I am aware that work of more importance has occupied your time and required the means necessary for this work. We are in possession, however, of a new set of scales for weighing coal and other supplies consumed at the works, a much needed improvement.

A comprehensive tabular statement of the performance of each engine is herewith annexed, to which your attention is invited.

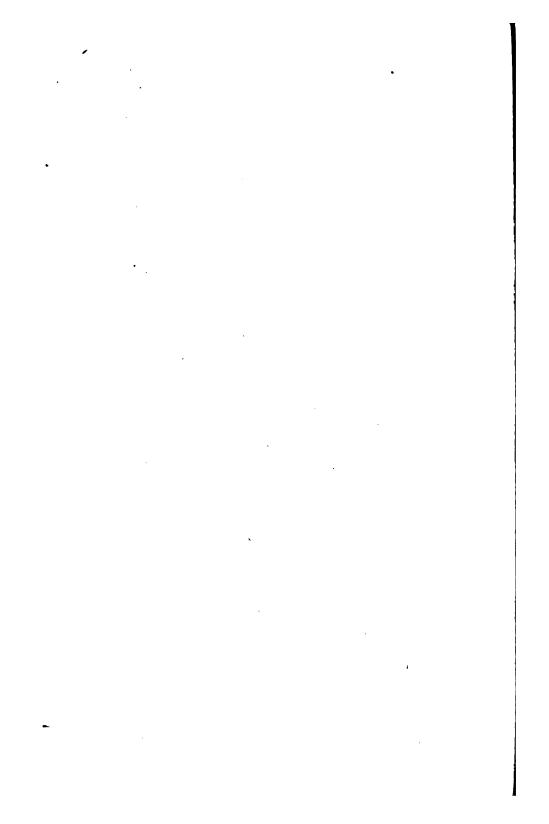
Respectfully submitted.

R. DOTY.

Engineer in Charge of Pumping Works.

# TABULAR STATEMENTS.

The following pages contain tabular statements showing the work of engines, distribution of water, extension and laying of pipes, location and number of stop-gates and hydrants set, abstract of expenditures, &c:



WORTHINGTON DUPLEX ENGINE, RECORD FOR 1878.

			PUMPING.	ING.		COAL CONSUMED	D.			
Монтн.	DVAS.	Hours.	Minutes	Strokes.	Raising Steam.	Pumping.	Total.	GALLANS OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.
Junuary	8	75.	18	876,778	2,400	846,600	MH,000	238,602,360	157.280	38,297,176
February	क्ष	752	श्च	275,452	:	575,471	575,471	170,780,240	157.304	39,048,974
March	ĸ	200	21	362,522	3,800	516,058	519,856	162,763,640	157.087	11,430,477
April.	絮	588	:	278,085	3,400	628,184	631,584	172,412,700	156.736	35,963,930
Миу	16	320	:	177,548	2,800	399,647	102,447	110,078,520	156.530	38,077,281
June	æ	55	55	368,362		766,700	765,700	3×384,440	156.707	39,095,650
July	33	7 <u>7</u>	જ્ઞ	413,343	900	H65, H00	MBK, 400	256,272,660	156.771	38,815,585
August	Ñ	<b>8</b>	æ	266,111	1,600	513,900	515,500	164,368,820	157.148	13,044,004
September	≋	711	91	388,290	2,000	008,800	700,800	228,387,940	157.025	918'816' <del>71</del>
October	3	<u>2</u>	88	3336,068		575,600	575,600	208,374,560	157.341	47,645,619
November	æ	717	52	319,408	3,400	249,400	352,800	198,082,980	157.419	47,463,583
December	<b>8</b>	Ŧ.	:	386,317	1,400	706,200	707.600	245,716,540	157.470	45,831,486
Totals and Averages	15	7,621	9	3,837,299	21,400	7,641,358	7,002,758	2,379,125,380	157.062	40,905,115
1		  -	1							

HENDERSON DUPLEX ENGINE, RECORD FOR 1878.

ı	=		PUMPING.	ING.	95	COAL CONSUMED.	ď	_		
MONTH.	.8YAQ	.enuoH	.sətnuf&	Ztroker.	Raining Steam.	Pumping.	Total.	GALLÓNS OF WATER PUMPED.	HEIGHT IN PEET AND DECIMALS.	DUTY.
February	2	345	æ	91,503	1,300	305,386	2505,7568	46, 75K, UKB	157 650	(#H*7286*65
March	œ	22	8	109,117		23,044	#0%X	257 (409) 75	157.502	31,056,723
April	æ	32	25	87,738	900	174,616	175,416	191 ELECT	156.749	31,708,776
Мау	11	<b>188</b>	\$	263,612	1,300	553,453	564,758	123,645,069	156.657	30,384,075
June	ee	18	æ	12,069	2,800	35,805	38,605	5,971,228	156.611	21,824,424
August	7	85 85	ĸ	174,497	:	390,300	380,300	(23)*139N*(35)	157.258	31,568,891
Totals and Averages 58	38	1,106	8	738,536	6,100	1,582,584	1,588,684	370,112,958	157,081	30,576,417

REFORD OF CORNISH ENGINES FOR THE YEAR 1878—EAST ENGINE.

	ı		•	!						
	_		PUMPING.	ING.	3	COAL CONSUMED	·		_	
MONTHS.	.87AG	-Hours.	Minutes	Strokes.	Raising Steam.	Pumping.	Total.	GALLANN OF WATER PUMPED.	GALIANN HEIGHT OF WATER IN FEET AND PUMPED. DECIMALS.	DITY.
August	ऋ	191	ક	74,125	34,600	04,000	88,600	23,794,125	157.291	48.904,386
October	83	211	8	97,325	26,800	105,800	132,600	31,241,325	157.346	38,855,599
December	91	105	2	49,575	30,300	49,000	69.200	15,913,575	157.870	42,877,208
Totals and Averages.	왕	Ę	<b>3</b>	221,025	71,600	218,800	280,400	70,949,025	157.502	42,711,039

RECORD OF CORNISH ENGINES-WEST ENGINE.

		_	PUMPING.	ING.	Š	COAL CONSUMED.	á		-		
MONTHS.	DAYS.	.sanoH	Міпитев.	Strokes.	Raising Steam.	Pumping.	Total.	OF WATER PUMPED.	HEIGHT IN FEET AND DECIMALS.	DUTY.	
Матећ		65	æ	925	20,000	1.300	21,200	286,925	157.186	:2.521.N53	
Мау	ıc.	æ	<b>8</b>	17,490	18,400	17.200	35,600	5,614,290	157.083	42,879,355	
June	23	101	18	47,255	19,200	40,500	59,700	15,159,225	156.828	49,090,152	
July	20	3	25	(\$4.90)	38,600	65,200	91,800	22,124,925	158.944	44,538,359	
September	21	選	<b>≅</b>	47,725	21,400	51,000	00H/81	15,319,725	157.287	39,511,952	
November	<b>*</b>	<b>S</b>	<b>S</b> e	. 44,375	12,400	47,400	59,400	14,244,375	157, 547	39,595,70K	
Totals and Avenges	월	*	2	220,1865	118,400	22,500	340,900	72,759,465	157. 142	42,974,117	
					BOTH ENGINES.	INES.	•				
East Engine	왏	ţ	я	221,025	71,000	218,800	290,400	70,949,025	157, 502	42,711,039	
West Engine	¥	<b></b>	10	228,665	118,400	009'888	340,900	23.7至.48	157.142	42,974,117	
Totals and Averages	22	1 <u>6</u>	8	447.660	190,000	441,300	631,300	143,708,490	157 388	42,842,578	
		_	-	-	_	-		-			

ANNUAL REPORTS OF TOTALS AND AVERAGES FOR BOTH CORNISH ENGINES FOR EACH YEAR SINCE THE CONSTRUCTION OF THE WORKS.

			:	•		·	1		11 11 11 11 11 11 11 11 11 11 11 11 11
		PUMPING.	ız.	Š	COAL CONSUMED.	÷		-	
YRAHR.	Hours.	Minutes	Mrokes.	Raising Steam.	Pumping.	Total.	GALLONN OF WATER PUNPED.	AVERAGE HEIGHT IN FEET AND DECIMALS.	DUTY.
1857	1206	র্	399, NPA	008'962	407,325	683,525	127,262,266	158,000	
1858.	<b>1</b> 54	18	<del>18</del> ,73	232,050	430,225	662,275	142,155,434	156,533	31,485,325
1850	1413	8	623,775	233,060	549,600	782,650	198,234,090	155,927	35,697,332
1860	1811	8	818,303	286,750	707,950	766,700	280,220,354	156,466	35,206,908
1861	2107	હ	1,018,129	385,600	854,150	1,118,750	322,175,022	156,482	37,548,089
1362	745	8	1,162,494	276,846	1,115,127	1,391,178	369,673,092	156,357	34,720,024
LMG3.	0 <del>0</del> 83	8	1,310,875	281,908	1,169,418	1,551,321	420,790,875	156,698	35,535,438
1964	<del>\$</del>	10	1,483,226	274,74	1,445,568	1,720,392	476,114,225	157,313	36,410,146
1.465	170%	9	1,611,405	986,950	1,579,559	1,866,500	517,261,005	158,017	36,621,770
1966	3351	*8	1,829,820	276,400	1,925,400	2,202,200	587;372,220	157,731	35,304,587
1867	3870	92	2,169,375	000°C	2,162,400	2,432,600	696,369,375	157,439	37,685,498
1868	4508	13	2,394,975	198,100	2,078,600	2,276,700	768,786,975	157,822	44,364,421
1×69.	5673	8	2,800,425	70,000	2,585,000	2,655,000	898,936,455	157,500	44,597,444
1870.	25.50	ล	3,508,500	49,000	3,388,300	3,437,200	1,126,228,500	156,970	43,010,620

ANNUAL REPORT OF TOTALS AND AVERAGES FOR BOTH CORNISH ENGINES FOR EACH YEAR SINCE THE CONSTRUCTOR OF THE WORKS.-Continued.

		PUMPING.	ING.	5	COAL CONSUMED	ć			
YEARS.	.sanoH	Minutes.	Strokes.	Raising Steam.	Pumping.	Total.	GALLONS OF WATER PUMPED.	AVERAGE HEIGHT IN FEET AND DECIMALS.	DUTY.
IKTI	8 <del>1</del> 08	*	4,260,500	63,200	4.322,400	4,395,600	1,367,621,100	157,781	41,108,940
1872	10562	56	5,253,495	45,300	5,430,800	5,478,000	1,686,370,895	158,377	40,788,146
1873	1286	28	5,824,825	13,600	6,122,300	6,135,900	1,469,768,835	157,886	40,081,983
1874	11083	용	5,163,325	37,500	5,379,400	5,416,800	1,658,460,090	157,400	40,090,999
1875.	651	8	:का,मड	143,500	389,586	483,085	103,226,048	158,180	27,775,460
1876.	9108:	9	1,342,438	128,394	1.393,400	1,521,794	437.730,867	156,662	33,120,599
1877	963	:8	315,635	122,000	334,600	456,600	101,372,466	158,318	27,925,975
1878.	2983	8	447,690	190,000	441,300	631,300	143,708,490	157.322	42,842,578
		-	_				_	_	

SCHEDULE SHOWING THE DISTRIBUTION OF WATER FOR EACH MONTH AND DAY IN THE YEAR 1878.

	GALLO	GALLONS OF WATER PUMPED.	MPED.		GALLONS DISTRIBUTED.	STRIBUTED.	
MONTHN.	Cornish Engine.	Cornish Englue. Duplex Engines Duplex Engines	Worthington Duplex Engines	Per Month.	Average Per Day.	Each Inhubl- tant per day.	Each Consumer Per Day.
January			283,602,360	096,509,585	7,535,580	19:81	3.73
February		46,758,033	170,780,240	217,538,273	7,769,224	50.12	132.38
March	296,925	52,604,432	142,763,640	215,664,997	6,956,935	<b>₹</b>	118.34
April		£,272,108	172,412,700	214,684,868	6,956,162	<b>₹</b>	118.52
Мау	5,614,290	128,645,089	110,078,520	244,387,879	7,881,867	.50 .84	134.39
June	15,150,225	5,971,22N	228,384,440	249,514,888	8,317,163	53.EE	111.71
July	920°1721°772		256,272,660	278,387,585	8,980,567	£.75	152.08
August	23,794,125	63) 138 138	164,308,820	345,024,96¥	9,097,579		155.01
Neptember	15,319,725		0H6,785,442	243,657,065	8,121,922	0 <del>.</del> 강	13%
October	31,241,325	:	208,374,560	239,615,885	1,739,74	58° 64	131.70
November	14,244,375		198,032,960	212,277,335	7.075,911	<del>25</del> .	130,78
December.	15,913,575		245,716,540	281,630,115	8,439,681	# 2	143.80
Totals and Averages	143,808,490	370,112,953	2,379,125,380	5,882,946,828	2,44.7 1,440	15. LG	185.05

SCHEDULE SHOWING THE TOTAL AND AVERAGE QUANTITIES OF WATER PUMPED EACH YEAR SINCE THE CONSTRUCTION OF THE WORKS.

		LLONS DIST	RIBUTED.		t. of
YEARS.	Per Year.	Per Day.	Each In- habitant Per Day.	Each Consumer Per Day	Per Cent. c
1857	127,262,265	348,664	7.75	110.68	
1858	142,155,434	398,467	8.37	93.44	11.
859	198,284,000	513,107	11.31	91.27	39.
1860	200,220,354	710,984	14.11	101.57	31.
861	322,175,022	881,599	16.82	114.50	23.
862	369,673,092	1,012,794	19.47	120.57	14.
863	420,790,875	1,152,875	20.97	117.54	12
864	476,114,225	1,300,858	21.68	123.89	12
865	517,261,005	1,417,153	21.80	122 70	8.
866	587,372,220	1,609,239	22.35	124.98	13
1867	696,369,375	1,907,861	23.85	115.98	18
1868	768,786,975	2.106,265	24.77	116.08	10
1869	898,936,425	2,462,839	27.36	120.20	16
1870	1,126,228,500	3,085,558	30.86	113.20	25
1871	1,367,621,100	3,746,907	35.68	124.90	. 21
1872	1,686,370,895	4,607,571	40.07	131.64	22
1873	1,869,768,835	5,095,230	43.06	137.71	10
1874	2,050,252,910	5,625,150	45.36	141.10	9
1875	2,216,775,816	6,073,358	44.00	136 65	8
1876	2,399,225,403	6,573,220	49.22	131.28	8
1877	2,820,326,074	7,726,920	55.91	142.24	17
1878	2,892,940,823	7,925,882	51.13	135.06	2

SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1878.

SIDE.	SIZE.	NTREET.	BETWEEN WH	FEET LAID.	TOTAL.	BEMARKS.
South	8 inch.	South 8 Inch. Clark Avenue	Tee in Burton, west	\$		
South	: ••	Cedar Avenue	E. L. Willson to Harnet	2,010		
South	3	Detroit	From 182 feet west of Oakland to City Limits	1,071		
East	: *	Gordon Avenue	Across Detroit	8		
North	: *	Payne Avenue	Tee in Wason to Tee in Dayton	145		
North	; ∝	Payne Avenue	Tee in Aaron to 56 east of Buckeye	ŝ		
North	: œ	Payne Avenue	Tee in Dayton to Tee in Clifton	310		
North	3 3C	Payne Avenue	Tee in Willson Avenue to Tee in Willard	훮		
South	z æ	Superior	40 East of Dunham Avenue, cast	87	5,175	5.175 Total 8 in. pipe.
East	; •	Arlington	Tee in Garden, south	200:		
West	;	(TOPM	Tee in Fourth north to Connect Pipe	121		
East	: •	Clifton	N. L. St. Clair, south	<b>\$</b>		
East.	:	Dayton.		098		
East	:	Florence	N. L. Woodland, north.	<b>•</b>		
East	:	Guernsey	S. L. Lorain, south	•		
South	:	Howard	The in Community week	3		

SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1878.—CONTINUED.

SIDE.	RIZE.	STREET.	BETWEEN WHAT POINTS.	PEET	TOTAL.	REMARKS.
West	: **	Harkness	N. L. Buelid, north	1,741		
East	; ec	Henry	N. L. Woodland to Tee in Scovill	<b>3</b>		
East	:		Tee in Scovill to Hydrant at Garden	1.13		
East	:	Jersey	E. L. Fulton to Tee in Jay	<b>£</b>		
West	:	Jennings.	Hydrant at Jerry to Connect Pipe at Starkweather	1,510		
North	;	Jefferson	Cross in University to Cross in Professor	98		
South	: 9	Kelley	Tee in Buckeye to E. L. Buckeye	ক		
Fast	:	Lawrence	Tee in Lake to Cross in King	185		
South	. 8	Lake	Tee in Lawrence to W. L. Lawrence	8		
East	:	Liberty.	S. L. Franklin, south	<u> </u>		
West	: •	Morse	S. L. Euclid, south	*		
East	: •	Madison Avenue	S. L. Home to Hydrant north of Hough	1.		
Fouth	; 8	Мажоп	Tec in Willson Avenue to Tee in Willard	<u> </u>		
South	;	Ohio	70 E. of N. L. Woodland to W. L. Erie	<b>3</b>		
East	:	Putnam	Putnam N. L. Woodland to Cross in Scovill	10,313		
West	:	Professor	Professor	1.158		

ACHEDITE SHOWING THE EXTENSION OF WATER PIPE IN 1878. CONTINUED.

SIDE.		MIRKT.	HETWEEN WHAT POINTS.	TEET LAID.	FEET TOTAL.	KENARKA
Elest		Richland	Tee in Quiney, north.		! !	
North	:	Viaduct	Tee in Tyler Alley, east	สิ		
North	: 9	Woodbine	Tee at Harbor to W. L. Fulton	1,73		
South	: 9	Whitman	W. L. Kentucky to Y in Woodbine	119		_
East	:	Willet	N. I. Chatham to Sprinkler near Lorain	Ž.		
Fast	:	Willard	Tee in Payne to Tee in Mason.	1.452		_
East	:	Ward	From Tee Monroe to 38 8, of Lorain	1.136		
East	:	York	Cross in Jay to S. L. Vestry	ş	XXXXX	237 18,225 Total 6 in. Pipe.
East	: <b>→</b>	Bond	S. L. St. Clair to 75 N. of Rockwell.	e Se		netaid.
Eart	:	Buckeye	Tee in Payne to Tee in Kelley	363		
East	:	Clifton	Tee in Payne to S. L. Payne	\$		
North	:	Fourth	Hydrant at Commercial to Tee in Cross	99		_
East	:	Glendale	Tee in Cedar, south	23		_
North.	:	Jay	Tee in Jersey to E. L. Jersey	务		
Nouth	:	Lake	Lake   Tee in Canfield, west	318		
South	:	King	King. (Tross in Lawrence to E. L. Lawrence.	8		•

SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1878.—Continued.

MID K	SIZE.	STRRET.	BETWEEN WHAT POINTS.	FEET LAID.	TOTAL.	FEET   LAID, TOTAL.; REMARKS.
 Korth	+ inch	North Mulberry	Tee in Pearl to Cross in Spruce	£65		
South 4	:	Sumner	E. L. Erle to Tee in Brownell	1,159	_	
South	; +	St. Clair	St. Clair Hydrant E. of Courtland, east	157		
North 4 "	;	Vinduct	Viaduct Tee in Tyler Alley, west	য়		
North 4 "	:	Washington	Washington Tee in Center, West	<del>20</del>		
Fast	:	Waring	S. L. St. Clair to Red. at Superior	828		
	; +	Hydrant Connections	Hydrant (Yonnections	992		6,110 Total 4 in. Pipe.
South	3	Superior	Superior From ('stern Con. to Sprinkler Op. Forest ('Ity House'	<b>%</b>	<b>Æ</b>	38 Total 3 in. Pipe.
		otal Feet of Pipe Laid in 1873	Total Feet of Pipe Laid in 1878.	•	\$7.0% \$4.00	

1878.
PECEMBER 31,
LAID TO I
OF PIPE
FEET (
TOTAL

1	1	, '			; ;	1			•		l.
Diameter of Pipe in Inches.	æ	8	<b>%</b>	R	91	괴	2	æ	<b>s</b>	4	<b>თ</b>
Laid previous to 1878 2,000 13,079 9,980 10,844 12,514 8,440 68,078 Laid in 1878	2,000	13,079 9,980	086'6	10,844	12,514	8,	68,078	81,506	18,225	124,824	14,673
Total cen up in 1878.		13,079	086'6	10,844	2,000 13,079 9,980 10,844 12,514 8,440 68,078	8.440	68,078	86,681	242,154	131,084	14,711
Total in use	2,000	13,079	98,68	9,980 10,844	12,514	97	68,078	86,681	242,154	130,829	14,711
	i		48,417 RECA	48,417 RECAPITULATION	LATION.			550,893			

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48.917 feet of Supply Main, equal to 9 Miles, 897 Feet.	550.868 feet of Distributing Main. equal to.
1	35
5	3
-	
4	S

# SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1878.

No.	SIZE.	STREET.	SIDE.	LINE OF STREET.
1	8 inch.	Clark Avenue	South,	W. L. Burton.
1	8 "	Cedar Avenue	•• '	2 East of Hydrant at C. & P. R. R.
1	8 "	Cedar Avenue	•	W. L. Harnet.
1	8 "	Detroit		W. L. Gordon Avenue.
1	8 "	Detroit	- 1	5 E. of City Limits.
1	8 "	Gordon Avenue	East,	N. L. Detroit.
1	8 "	Gordon Avenue		S. L. Detroit.
1	я "	Payne Avenue	North,	W. L. Willson Avenue.
8		Total 8 inch valves se	t in 1878	·
1	6 inch,	Arlington	East,	S. L. Garden
1	6 "	Curtiss	South,	E. L. Willson.
1	6 "	Dayton	East,	S. L. Payne.
1	6 "	Florence		N. L. Woodland.
1	6 "	Howard	South,	W. L. Scranton.
1	6 "	Henry	East,	S. L. Scovill.
1	6 "	Hackman	••	N. L. Scovill.
1	6 "	Harkness	West,	2 ft. N. of Sec. Hydrant N. of Euclid
1	6 "	Jennings	**	N. L. Branch.
1	6 "	Jennings	**	N. L. Jerry.
1	6 "	Jefferson	North,	W. L. University.
1	6 "	Jefferson	••	E. L. Professor.
1	6 "	Liberty	East,	S. L. Franklin.
1	6 "	Lawrence	, "	N. L. Lake.
1	6 ''	Mason	South,	W. L. Willson Avenue.
1	6 "	Madison	East,	S. L. Home.
1	6 "	Madison		S. L. Hough.
1	в "	Professor		N. L. Jefferson.

# SCHEDULE SHOWING THE SIZE, NUMBER AND LOCATION OF STOP GATES SET IN 1878.- CONTINUED.

No.	SIZE.	STREET.		LINE OF STREET.
1		Putnam		
1	6' "	Richland	**	N. L. Quincy.
1	6	Ward	**	N. L. Monroe.
1	6 " '	Willard	••	S. L. Payne Avenue.
1	6 "	Willard	••	N. L. Mason.
1	6 "	Woodbine	North,	E. L. Harbor.
1	6 "	Woodbine	**	W. L. Kentucky from the South.
1	6 "	Whitman	South,	S. L. Woodbine.
1	6 "	York	East,	N. L. Jay.
<b>27</b> ∫		Total number of 6 incl		
1	4 inch.	Buckeye	-	*
1	4 "	Fourth'N		
1 :	4 "	Glendale 1		
1	4 "	King 8	•	
1	4 "	Lake		
1	4 "	Mulberry		
1	4 "	Mulberry		
1	- 1	Sumner S	1	
1	4 "	Washington I		
1	4 "	Waring		•
56 	4 "	Valves for Hydrant co	onnec t	ions.
36	1	Total number of 4 inch	valves	set in 1878.
1		Superior 8	outh,	14 ft. E. of E. Curb Op. F. C. House
٠.		Valves of all sizes set in	. 1070	

RECAPITULATION OF STOP GATES.

## SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1878.

NO.	SIZE	STREET.	FRET.	LOCATION.	SIDE.
1	4 in.	Arlington	507	S. of Garden	East.
2	4 "	Buckeye	142	S. of Payne Avenue	East.
3	4 "	Codar Avenue	242	E. of Willson Avenue	South
4	4 "		12	W. of C. & P. R. R	South
5	4 "	** **	130	W. of Glendale	South
6	4 "			W. L. Harnet	South
7	4 "	Dayton	202	S. of Payne Avenue	East.
8	4	Detroit	586	W. of Oakland	South
9	4 "	***************************************	12	E. of Gordon	South
10	4	Fourth	108	E. of Cross	North
11	4 "	Glendale	592	S. of Cedar	East.
12	4 "	Harkness Avenue	887	N. of Euclid	West.
13	4 "		820	N. of Euclid	West.
14	4 "	<u> </u>	1271	N. of Euclid	West.
15	4 "		1741	N. of Euclid	West.
16	4 "	Henry	389	N. of Woodland	East.
17	4		142	8. of Scovill	East.
18	4 "	Hackman	258	N. of Scovili	East.
19	4 "		410	S. of Garden	East.
20	4 "	Jennings Avenue	13	N. of Auburn	West.
21	4 "		13	N. of Branch Avenue	West.
22	¹ <b>4  </b> "	!		S. L. Jerry	West.
23	14 "		352	N. of Jerry	West.
24	4 **	Jefferson		E. L. Professor	North
新	4 "	Lawrence		S. L. King	East.
26	4 "	Liberty	352	S. of Franklin	East.
27	14 "		723	8. of Franklin	East.
24	4 "	Madison Avenue	. 16	N. of Gray	East.
29	4 "		191	8. of Hough	East.
30	4 "		. 202	N. of S. L. Hough	East.
31	4 "	Ohio	. 347	W. of Erie	South
32	4 "	Payne Avenue		W. L. Kirtland	North
33	١.	Putnam	. 227	N. of Woodland	East.

## SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS SET IN 1878—Continued.

NO.	SIZE	STREET.	FEET.	LOCATION.	SIDR.
34	4 in .	Putnam	546	N. of Woodland	East.
35	4 "	••	236	S. of Scovill.	East.
:36	' <b>4</b> "	Sumner	:224	E. of Erie	South.
37	4 "	• • • • • • • • • • • • • • • • • • • •	599	E. of Erie	South.
38	4 "	1 44	153	W. of Brownell	South.
39	4 "	Superior	340	E. of Dunham	South.
40	4 "	; ·· · · · · · · · · · · · · · · · · ·	128	W. of Giddings	South.
41	4 "	Viaduct	231	W. of Tyler Alley	North.
42	4 "	Woodbine	381	E. of Harbor	North.
43	4 "		2	W. of W. L. Kentucky from S.	North.
44	4 "	**	146	W. of Duane	North.
45	4	Whitman	181	West of Woodbine	South.
46	4 "	Willet		At Chatham	East.
47	4		238	S. of Lorain	East.
48	4 "	Willard	112	S. of Payne Avenue	East.
49	4 "		523	S. of Payne Avenue	East.
50	4 "		436	N. of Mason	East.
51	4 "	4		At Mason	East.
52	4 "	Ward	226	S. of Lorain	East.
53	4 "		112	S. of Chatham	East.
54	4 "	Washington		At A. & G. W. R. R	North.
55	4	Waring	145	S. of St. Clair	East.
56	4 "		198 ;	N. of Superior	East.

<sup>56</sup> Set in 1878.

<sup>817</sup> Set previous to 1878.

<sup>873</sup> Total in use December 31, 1878.

ABSTRACT OF EXPENDITURES FOR JANUARY, 1878.

BILLA RENDERED BY	WOR	Pipe Ex- General tension. Repairs.	General Repairs.	Office Engine and Gen. House Expens's Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Interest. Total.	Total.
Pay Rolls	Labor		\$248 97		\$1,618 60 \$1,225 61	\$187.80			*8.375 98
Lord, Bowler & Co.	Water Valves	\$40 50	:		:		:		40 50
P. Huberty	Cabinet Work			144 50	:	_:	: _:_	_:	144 50
Worswick Manufac'ing Co Iron Fittings	Iron Fittings	:	- : : : :	7.46	:	:			1- 8#
Cleveland, Brown & Co	Repairing Sidewalk		:	11 %	:		:		11 88
Otto Konigslow	Repairing Work	:	1 50	:	:	:	:		1.50
Wm. S. Wight	Water Tank.	-	:	85 85		:			\$6 \$8
K. Hartman	Repairing Lamp.		1 00	•	:		::		1 00
Wm. C. Barl	Water Rent Receipts, etc		:	21 50	:				21 50
W. Binghum & Co	Hardware		:	3 10			:		3 10
Short & Forman.	Stationery, etc	:	:	**	ੌਂ ਜ	:		:	<b>%</b>
Strong, Cobb & Co	Paints and Oils	:	:	<b>S</b>		:	:	:	<b>3</b>
(arother Bros	Drop Lights	:					:		2 00
Geo. Cooper & Co	Duck Cloth			2 30				:	25 25
P. Ryan	Hauling Meters			1 50				-	1 25
V. Swain's Sons.	Blocks, etc.	:	:::::::::::::::::::::::::::::::::::::::	:		9			¥
Chas. D. Everett, Assignee	Soap Compound				1 15				1 15

ABSTRACT OF EXPENDITURES FOR JANUARY, 1878-CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	Pipe Ex. General and Gen. House House tension. Repairs. Expens's Expens's Repairs.	Office and Gen. Expens's	Engine House Expens's	Engine House Repairs.		Water Interest Total.	Total
E. W. Kellorg & Co	Cylinder Oil		:	:	\$ 117.56		\$ 117.56	:	\$ 117
Geo. A. Stanley	Lard Oil.	:		:	36 38	:		:	<b>8</b> 6
J. Ingraham	Cotton Waste		-	`.	16 51	:		:	46 51
H. R. Worthington.	Meter Dials		:	8 18 75 .		:			18 75
Cleveland Rubber Co	Rubber King					90 OS	\$ 50 00 or		90 OS
Peoples' Gas Co	Gas.		:	:	* **	:			**
Globe Iron Works	Blacksmithing			:	:	46 65			46 65
J. J. Parsons	Copper Gaskets.	:		:		1 15	:		1 15
Edwards, Townsend & Co	Вгопив	:			ੋ <u>ਊ</u> ਨ	:	:		2 50
Total		940 50	\$343 97	\$1,88¥ 35	\$1.485 91	28 45 54 45	\$948 97   \$1,484 35 \$1,486 91 \$294 45   \$4,003 18		\$4,003
		1						1	;

ABSTRACT OF EXPENDITURES FOR FEBRUARY, 1878.

HILLS KENDERED BY	MOH.	Pipe Ex- tension.	General Repairs.	Pip. Ex- General Office Engine Engine tension. Repairs, and Gen. House Expens's Expens's Repairs.	Engine House Expens's	Engine House Repairs	Water Meters	Interest Total.	Total.
Pay Rolls	Labor	:	£ 355	\$ 294 H6 \$ 1,567 12 \$ 1,215 33	<b>\$</b> 1,215 33	£ 32 40			\$8,170 11
Fred Hempy	Wood-plugs	\$ 130	:						1 20
M. Fielding.	Relaying Pavement		8 75			- :		:	6 75
Clevel'd Ship Chandlery ('o.	(anvas.		ħ	:			:	:	55
B. P. Bowers.	Plumbing.			20 L¥	:			:	47 08
Worswick Manufacting Co: Fittings	Fittings		:	34 31	- : :	-			1 <del>1</del> 75
Herald Pub. Co	Advertising.			1 50	:				1 50
Chas. H. Clark	Coal		:	11 %		:		:	11 28
H. R. Worthington.	Repairing Meters			£	:				紊
Cleveland Gas Light Co	Gas	- :	:	8	:				7.
William Gaul	Sand and Manure		:	93 93	:	1.85			3 75
Carothers Bros.	Drop-light, etc		:	1 10			:		1 10
W. Bingham & Co	Hardware.		:	Ē	13 00	10 7		- : : :	17 76
Strong, Cobb & Co.	Lead, Oil, etc	:	:	4 49	18 10	:		:	33 33
Meriam & Morgan	Carbon Oil.		:		- अ अ				<b>8</b>
J. Turton	Painting	- :	:	- - - -	80 %		:	:	90 91
	Elec Clos:			_	2 45				. 0

1878-CONTINUED.
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BILLA RENDERED BY.	MOR.	Pipe Ex- tension.	General Repairs	Pipe Ex. General and Gen. House House House Expens's Expens's Repairs.	Engine House Expens's	Engine House Repairs.	Water Meters.	Water Interest	Total.
Rhodes & Co	Coal			<b>**</b>		942 96 · · · · · · · · · · · · · · · · · ·	:	:	98 278 \$
Edwards, Townsend & Co.	Brooms	- : :	:		92 92		:	:	हि. ११
People's Gas Light Co Gas	Gas.		:	- :. - ::	18 90	- :		18 90'	18 90
Hobe Iron Works	Blacksmithing.	:	:	:	:	₹ %		76 %	*
libson, Roberts & Price	Pig Lead	:	:		-	17. 51	:		17 51
Bell, Cartwright & Co	Lumber.				:	- 98 98			86.
W. G. Le Pelly	Rep. Clatern at Eng. House.					왕		:	23 28
I. Stovering & Co	Blacksmithing.	16 14	16 14		_:	-		=	16 14
Totals		   %	Si 22:	1.20 \$ 322 50 \$ 1,736 37 \$ 2,223 06 \$ 128 12	80 EE 57 55 84	\$1 881 \$	:		<b>2.</b> .409 ½

ABSTACT OF EXPENDITURES FOR MARCH, 1878.

HILLS RENDERED BY	POR.	General Repairs.	Office Engine Engine and Gen. House House Expens's Expens's Repairs	Engine House Expens's	Engine House Repairs		Water Interest struction	Con- struction	Total.
Pay Rolls	Labor	385 67	:	:	- :		:	:	# 985 67 #
:	*	:	\$1.617 42				:	:	1,617 42
:	3	:	:	\$1,220 16	:				1.239 16
Lord, Bowler & Co	Valves	58	:			:	:		61 56
Cleveland Cement Pipe Co	Cement	92	:	:	:	:	:	:	92 6 •
Lader Printing Co	Stationery	:	25 26		:	:	:	:	26 26
Robison, Savage & Co	Meter Book		<b>8</b> 2		:	:			* 2
Purdy McNell	Lumber	:	20 20 20					:	35 35
L. Richardson	Small Desk	:	3 50	:		_	:	:	3 50
F. & H. Born	Pump	:	92 93	:	:	:		:	2 20 20
Cleveland Gas Light Co	Gus	:	9 2	:	:		:		5 40
E. Cushing	Office Rent.	:	275 00			:	::	:	275 00
Worswick Manufacturing Co. Fittings	Fittings	:	*C		:		<u>:</u>	:	55 578
W. Bingham & Co	Hardware.	:	26 x	ķ! 表		-	:		*
Edwards, Townsend & Co Brooms	:	:		31	:		:	:	3.1 15
:	 -		-			-			ş

ABSTRACT OF EXPENDITURES FOR MARCH, 1878-CONTINUED.

BILLA RENDERED BY.	POR	General Repairs.	General Office Engine Repairs Expens's Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Interest	Engine Water Interest Con- House Meters, Interest struction Total.	Total.
Strong, Cobb & Co	Strong, Cobb & Co			134					75
K. Hartman	K. Hartman Lamp Cnimneys			1.50				1 50	.1 50
H. R. Worthington	Water Meters.			:		<b>8</b> 384 44		:	**
Jas. Farnan	Brass Cock		-	5 00	5 00	:			5 OO
American Lubricating Oil Co Cyl. Oil	:		 : :	9	:		- : :	_ :	9 68
Rhodes & Co	Rhodes & Co Coal.			<b>224</b> 08		:		:	85 438 84 08
H. R. Worthington	Final paym't for pump. eng.						\$1,823 50	\$1,923 50 \$7,500 00	9.423 50
Total	Total	<b>85</b> ±38 73	\$ 436 73 \$ 1,970 97 \$ 2,148 46 \$ 384 44 \$1,823 50 \$7,500 00 \$14,384 07	3 2,148 46		\$ 394 44	\$1,923 50	\$7.500 00 \$	14,364 07

## AINTRACT OF EXPENDITURES FOR APRIL, 1878.

YE CHARACTER ALLER	H NO.	Pipe Ex-	General	Office	Engine	Engine	Water	Con-	Total.
-		tension.	Kepalrs.	Expens's	Expens's	Repairs.	Meters.	struction	- 1
Pay Roll	Labor	\$ 547 58	\$705 98	\$1,576 28	हा क्ष्य,1 <b>३</b>			: :.	£ 990'H\$
Lake Shore Foundry	Pipe and Castings	2,414 63		:		:	:		2,414 63
Lord, Bowler & Co	Valves.	173 00	:			•		:	E 8
Henry Steigmeier	Packing and Twine	82 82	13 47		:	:		:	<b>3</b>
John Wagner.	Coal	3 80	:		:	:	- : : : : : :	:	8
Fred. Hempy	Wood Plugs	4, 10				-		:	4 10
Glbson & Price	Pig Lead	171 24		:		:	:	:	171 24
R. D. Wood & Co	Fire Hydrants	44 8	:			-:		:	90 ##
Stovering & Co	Blacksmithing		0: 9:				,	÷ : :	95 95
Cleve. Ship Chandlery Co	Duck Cloth		135	:		:		:	_ 원
K. Hartman	Repairing Lamp		2 00		:	:		:	20
Thos Manning	Repair Work		23			:	:		∓ 23
Worswick Manufac'ing Co	Pipe Fittings			3		:	:		<u>क</u> क
Lander Printing Co	Advertising	80 *	:	3 50		:		:	11 50
Herald Publishing Co	:		· :	6.25	 : :			· :	æ
Plain Dealer Publishing Co	:::::::::::::::::::::::::::::::::::::::	:	:	2 00	-:	:		:	2 00
Wachter am Erie Pub. ('0	3	<u>:</u>	:	9	- : :		:	-::::::::::::::::::::::::::::::::::::::	3

ABSTRACT OF EXPENDITURES FOR APRIL, 1878-CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex-General tension. Repairs.	General Repairs.		Office Engine and Gen. House Expens's	Engine House Repairs.	Water Meters.	Water Con- Meters, struction	Total.
Robison, Savage & Co	Blank Book		:	. 23 88	:		:	- <del>-</del>	88 83 88
Short & Forman	Stationery.	:	:	38 38	:	:	:		58 55
M. B. Sturtevant	Horse and Wagon	:	:	10 00	:		:		10 00
E. Henderson.	Plumbing	:	:	1 45	÷	:	:		1 45
W. S. Wight	Carpenter Work	:		80	:	:	:	:	<b>8</b> 8
Sterling & Co	Relaying Carpets.	:	:	0+		:	:		4 40
Strong, Cobb & Co	White Lead, &c		:	3 10	• :	:	:	:	3 10
P. Ryan	Hauling Meters	:	:	2 00	:	:	:	:	°. 80
Cleveland Gas Light Co	. Снв. &с	96 <b>35</b>	:	7 05	:	:	:	:	13 05
R. W. Abram	Tallow		:	:	<b>88</b>	•			<b>8</b>
Edwards, Townsend & Co	Brooms	:		:	2 50	:	:	•	0£ %
Cleveland Rubber Co	Rubber Hose		:	· :	3 10	:	:	:	3 10
Rhodes & Co	Coal			:	866 42	:	:	:	886 42
People's Gas Light Co	Gas	:	:	:	33			:	31 68
Globe Iron Works	Blacksmithing	:	:	: - ;-	:	\$10 38	:	:	36 01
H. R. Worthington	Water Meters	:		: -		22 25	\$132 07	:	155 22
M. A. Wilhelmy	Trees and Shrubs	: :	:	:	_:			04 EMS	55 55

ABSTRACT OF EXPENDITURES FOR APRIL, 1878-CONTINUED.

HILL RENDRRED HY	MOH	Pipe Ex- tension.	General Repairs.	Office and Gen. Expens's	Engine House Expense	Engine House Repairs.	Water Meters.	Pipe Ex- General and Gen. House Rugine Water (contended. Repairs, Expens Expens Repaire, Meters, struction	Total.
Jas. Rudge	Furnish'g & Plant's Trees.				:	:		\$117 00	\$117 00 \$ 117 00
M. Flelding.	Relaying Pavement		\$9 16	:	:		_ :_		9 16
Robert Holmer	Blacksmithing	:	90 +	\$14 75	:	:	:	:	18 75
H. W. Luctkineyer Lawn Mower	Lawn Mower		:	8 31	•	. :	:	:	8 श्र
Total	Total	\$3.85¥ 65	81 HOS#	\$3,85% 65 \$104 76 \$1,827 96 \$2,153 46	\$2,153 ±6	1	00 agi 🚓	\$33 47 \$ 132 07 \$100 50 \$8,969 63	\$8,969 63
					1	•.	,		1

ABSTRACT OF EXPENDITURES FOR MAY, 1878.

BILLS RENDERED BY.	FOR.	Pipe Ex- General tension. Repairs.	General Repairs.	Office and Gen. Expens's	Office Engine and Gen. House Expens's Expens's	Engine House Repairs.	Water Meters	Crib Super- st'cture.	Total.
Pay Rolls	Lathor	₩ 7± 35	8 346 UR	\$ 346 09 \$1,482 17	\$1,150 00				\$ 3,724 49
Lake Shore Foundry.	Pipe and Castings.	3,374 38	:		:	:		:	3,374,38
Lord, Bowler & Co	Valves	377 50	:	:	:	:	:		377 50
City of Cleveland	Relaying Pavement	98: 74K:	:			:			98 238: 238:
Gibson, Roberts & Price	Pig Lead	121 40	:	:	:	:			121
Henry Stelgmeler	Hemp Packing	25 EF			:		:		33
Upson & Walton	Capstan Bars, &c	₹.	` ₹	:	:	:			1 78
A. F. & H. Streator.	Pig Lead	101 96	:			:	:		101 96
Jno. Wagner	Coal	3 15	:		:		:	:	2 15
Strong, Cobb & Co.	Paints, Oils, etc.	:	55 58	:	:	\$ 5 60		:	61 45
Geo. M. Smith	Stone Work at Reservoir	 :	56 70		:	:		:	56 70
Thos. Manning	Blacksmithing.		10 67	:	:	•	:	:	£3 01
Stovering & Co.	· · · · · · · · · · · · · · · · · · ·		19 51		:			:	19 51
E. Henderson.	Plumbing:	:	08 L-	13.86			:		2 2
M. Fielding	Relaying Pavement		81	:	:	:			₹ 1-
W. Kaufman.	Advertising Water Rents		:	00 <del>†</del>	:	:			<b>4</b> 00
Cleveland Gas Light Co	Сая		:	3 00		:			3 00
Robison, Pavage & Co.	Record Винки		:	11 40	. :	:	:	:	11 40
St. Discriberro & Ch.	Handman	_		18 81					15 31

ARSTRACT OF EXPENDITURES FOR MAY, 1878-CONTINUED.

BILLS HENDERED BY.	лон.	Pipe Ex- tension.	General Repairs.	Pipe Ex- General and Gen. House tension. Repairs Expens's Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
M. B. Sturtevant	Horse and Wagon, use of.			\$ 12 00					12 00
Geo. A. Stanley	Lard Oil.			:	\$ 28 10				<b>36</b> 10
People's Gas Light Co	Gas				95 95		:	: :	95 95
Rhodes & Co	Coal	::		:	725 88	:			25 88
Edwards, Townsend & Co	Brooms and Soap				- <b>8</b> 3 − ∞	%3 &6		<u>:</u>	× × ×
Globe Iron Works	Grates, etc.	- <u>-</u> -		:		\$ 40 72			40 72
A. A. McDonell	Estimate			:	:	:		\$6,739 88	6,739 88
H. R. Worthington	Water Meters						<b>84</b> 30	:	420 23
Union Water Meter Co	Repairing Meters		\$ 15 00		:	:			15 00
People's Gas Light Co	Resetting Posts			:		<b>35</b>			18 81
Totals	Totals	\$6,148.26		\$562 15 \$1,545 67 \$1,999 73 \$68 16	\$1,969 73	\$68 16	88 88	\$6,739 83	\$420 23 \$6,739 83 \$16,444 08

ABSTRACT OF EXPENDITURES FOR JUNE, 1878.

BILLS HENDERED BY	FOR	Pipe Ex- General tension. Repairs.	General Repairs.	Office and Gen. Expens's E	Engine House Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
Pay Rolls	For Labor	95 ZI.	₹6 <b>7</b> <b>8</b> <b>8</b>	\$1,451 64	\$1,158 50		:	:	\$3,606 98
Lake Shore Foundry	Pipe and Castings	3,456 64	:		:	:	:	:	3,456 64
J. Stovering & Co	Blacksmithing	39 91	14 38	:	:	:	:		<b>35</b>
A. F. & H. Strater	Pig Lead	146 66	:	:	:	:	:		146 66
Gibson & Price	3 3	96 28	:	:	:	:		:	99 28
Lord, Bowler & Co	Valves	317 728	21 50	:	:	:	:	:	\$1 88
R. D. Wood & Co	Fire Hydrants	44 00	:	:	:	:	:	:	<b>444</b> 00
Fred. Hempy	Wood Plugs	06 01		-	:	:	:	:	10 90
John Wagner	Coal	<del>*</del> 36	:		:	:	:	:	4 30
W. G. Le Pelley	Carpenter Work	:	8	:	:	:	:	:	88 44
Strong, Cobb & Co	Oil, &c		06 06	:	:	:		:	96 96
Thos. Manning	Blacksmithing.		25 26	:		:	•	:	21 85
Roehl & Koehn	Brick for Resevoir	:	62 00		:	:		:	8 3
K. Hartman	Repair of Lamp	:	1 50	;	•	:			1 50
Cleveland Gas Light Co	Gas		:	2 40	:	:		:	83 <del>1</del>
Worswick Manufact's Co	Pipe Fittings	:	:	73 38	<b>.</b> 8	:	`	:	53 74
E. Cushing	Rent	:	:	275 00	:	:	:	:	27.5 00

ABSTRACT OF EXPENDITURES FOR JUNE, 1878-CONTINUED.

HILLS RENDERED BY	тон	Pipc Ex- General tension. Repairs.	General Repairs.	Office Engine Rand Gen. House Expens's	Engine House Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
S. C. Brooks & Co	Meter Boxes	: :	:	<b>≈</b> ₹		:	_ :	:	<b>\$</b> 21 ±0
M. B. Sturtevant	Horse Hire		:	14 00	:		:		14 00
John W. Nixon	Plumbing		:	\$ +		:			4 65
Leader Printing Co	Printing Notices	:	:	9 90	:	:	:	:	9 00
F. & H. Born	Flue Stop	:	:	ĸ	:	:		:	簽
Globe Iron Works	Iron Works		:	:	\$ 1.08		:		1 08
W. Bingham & Co	Hardware	:		16 77	:		:		16 77
Short & Forman	Stationery	:	:	8.20	:	:		:	* %
Peoples' Gas Light Co	Gas		:	-	15 40	:		:	15 40
W. H. Parkin	Recutting Files.	:	:		5 97	: :	: : :::		5 97
A. A. McDonell	Estimate.			:	:	_:	:	\$3,595 51	3,585 51
H. R. Worthington	Water Meters	:	:		:	:	\$101 07		101 07
Robert Busher	Dam. to Horse and Carriage			11 00	:	:	:		71 00
Total		\$6,213 25	\$6,213 25 \$ 1,528 92	\$1,824 80	\$1,181 30		\$101 07	\$3,595 51	\$3,596 51 \$12,542 85

ABSTRACT OF EXPENDITURES FOR JULY, 1878.

HILLS RENDERED BY	FOR	Pipe Ex- tension.	Pipe Ex-General tension. Repairs.		Office Engine Engine and Gen. House House Expens's Expens's	Engine House Repairs.	Water Meters.	Crib Super- st'cture.	Total.
Pay Rolls	Labor	\$ 580 87	\$ 436 83	\$1,415 96	\$1,158 58	\$ 41 60		\$ 110 53	\$7,344 32
Lake Shore Foundry	Pipe and Castings	3,096 06			:				3,095 08
Lord, Bowler & Co	Valves	180 50	10 50		:	:			201 00
Gibson & Price	Pig Lead	76 49		:		:	:		76 49
R. D. Wood & Co	Fire Hydrants	444 00	:	:	:		:		444 00
John Wagner	Coal	4 30			- :-	:	:		4 30
J. Stovering & Co	Blacksmithing	:	<b>35</b>	86	:	:			83 88
Thos. Manning	:		11 68	9		:	:	:	17 68
H. Stelgmeier	Packing.	288	10 58			:		:	86 57
Upson, Walton & Co	Duck	- :	1 10		:			:	1 10
W. G. Le Pelley	Carpenter Work	:	14 30			:	:	:	14 30
Geo. Cooper	Duck		2 50				:	:	2 50
Gardner, Clark & York	Cement	:	1 50	—;- : :		:	:	. :	1 50
Strong, Cobb & Co	Oils, Lead, etc	:	86 88	1 42	:	** **			35 GS
W. P. Southworth & Co	Patls.	:	8		:			:	8
Worswick Manufacturing Co Fittings	Pittings	:		: 8 8	:			:	83
M. B. Sturtevant	Horse and Wagon Hire		_	10 00				 :	10 00

ABSTRACT OF EXPENDITURES FOR JULY, 1878-CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex- General tension. Repairs.	General Repairs.	Office and Gen. Expens's	Engine House Expens's	Office Engine Engine and Gen. House House Expens's Expens's Repairs.	Water Meters.	Crib Super- st'oture.	Total.
P. Ryan.	Cartage			00 1 🏶					\$ 100
W. S. Wight	Carpenter Work	-		75 28		:	:	:	75 88
Wm. Bingham & Co	Hardware	_:		88	:			:	<b>3</b> 5
J. B. Savage	City Directory			<b>6</b> 4	:	:	:	:	90 7
Cleveland Gas Light Co	Gвв			\$3 01		:	:	:	83 83
People's Gas Light Co	Свя				\$ 18 38	: : : :	:	:	18 38
Leonard & Ellis	Cyl. Oil.			:	149 50			:	149 50
Edwards, Townsend & Co	Brooms		:		2 75	:		:	2 75
H. Sackman.	Gale Lock Keys			2 10	:		_ :	:	2 10
Herald Publishing Co	Advertising		:	:	6 40		_:	:	9
Little Beaver Coal Co	Coal			:	75 67	:	:	:	75 BB
M. T. Thompson	Coal	:			88		: : : :	:	<b>8</b>
W. H. Woodward	Fittings		:	:	93 TC		:		2 75
Globe Iron Works	Blacksmithing		:	:	:	\$ 6 10	:		6 10
H. R. Worthington	Meters						\$310 06	:	310 06
Adams, Jewett & Co	Варт		:	:	:			* *	25 28
Western Cement Co	Cement							20 28 20 20 20 20 20 20 20 20 20 20 20 20 20	38 00

ABSTRACT OF EXPENDITURES FOR JULY, 1878-CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex- tension.	General Repairs.	Pipe Ex- General and Gen. House House tension. Repairs. Expens's Expens's Repairs.	Engine House Expens's		Water Meters.	Water Super- Meters, st'cture.	Total.
R. T. Lyon	Cemont		:		:		:	\$ 91 00	8 91 00
A. T. Van Tassel	Hardware	- <u>:</u>			22. *	:	:	:	88
A. A. McDonell	Estimate		:	 : :		:		1,739 75	1,729 75
Rhodes & Co	Coal			-	1,618 93	1,618 93	:	:	1,618 98
• C. L. Earl	Water Rent Bills	:	:	\$ 19.80	19 80			:	19 80
L. ReifLabor	Labor	:			:	00 9 \$			9
Totals	Totals.	<u></u>	\$ 543 73	\$1,591 21	\$3,075 92	859 08	\$ 310 05	\$4.417 43 \$ 548 73 \$ \$1,501 21 \$8,075 92 \$50 06 \$ \$310 05 \$2,027 59 \$12,024 90	12,024 90

ABSTRACT OF EXPENDITURES FOR AUGUST, 1878.

		1					1				
BILLA RENDERED BY	FOR	Pipe Ex- Gen'l tension. Rep'rs.	Gen'l Rep'rs.	Office and Gen. Expens's	Engine Engine House House Expens's Rep'rs.	Engine House Rep`rs.	Con- struction	Crib. Super- struct're	New Bollers.	Crib Protec'n	Total.
Pay Rolls	Labor	\$ 681 94	<b>8343</b> 90	\$1,486 86	81,212 50	98 098		\$ 811 62	<b>\$</b>		\$ 4.648 82
Lake Shore Foundry	Pipe and Castings.	1,718 28		:		:	:	:	:	:	1,718 28
Lord, Bowler & Co	Valves	406 50	23	:	:	:	:		:	-	490 GE
Thos. Manning, Jr	Blacksmithing	ಸ 8	11 16	Ŝ.	:	:	:		:	:	19 68
Gibson & Price	Pig Lead	114 47	:: 80 88	:	:		:	:	:	:	158 53
John Wagner	Coal	) 8		:	:	- :	:	:	:		88
R. D. Wood & Co	Fire Hydrants	00 ##			:	:	:		:	:	<b>4</b> 8
Theo. Simmons.	Cement	:	4 50	<u>-</u>	:		:	:	:	:	4 50
K. Hartman	Repairing Lamp.	i	8	:	:		:		:	:	<b>3</b>
Upson, Walton & Co	Capstan Bars	:	_55 _	:	1 86	:	:		:	:	<b>30</b>
Worswick M'fg. Co	Pipe Fittings	:	:	4	:		:	:	:	:	4
:	Cement, &c	:	:	4 75	:	:	:	:		:	11 %
Chas. Dewstoe	Plumbing		:	11 62	:		:	;	• :	:	11 GE
Vincent, Sturm & Co.	Repairing Chairs.	-	:	1 60	:	:	:	:			1 60
J. B. Savage.	Books	:	:	\$		:	:	:			48 70
J. J. Graves	Plumbing	:	:	46 45	88 88	:	:		:	:	72 31
W. Bingham	Hardware		\$	8	:	:	:	156 31	-:		178 35

ABSTRACT OF EXPENDITURES FOR AUGUST, 1878-CONTINUED.

1078c. \$ 2 80 88 88 88 88 88 88 88 88 88 88 88 88	of Horse.	•	- i i i i i						
Gass   1 96	ownsend Brooms  Labor  Seon Coal	28 88 28 88	116 88 7 02 1 14						00 ≈
Plumbing   38 92   32 00   38 00   3	ownsend Brooms Labor Seon. Coal.	8 8	9 2 00 116 88 7 02 1 14						1 96
Brooms   Brooms   \$ 2 00	ownsend Brooms Labor Sson Coal,		9 00 116 88 7 02					:	35 36
Labor   Coal   116 88   116	Seon. Coal.		9 00 116 88 7 02		:			- ;- - ;-	2 00
Coal   116 88	organ Oil		7 02		_	:			00 G
on Oil  sr Co. Belting.  se Blacksmithing.  se 663  Oil  Primp Plunger.  Paint'gWall, E. H.  et Co. Walnut Lumber.  Masson Labor.  Gr. Adverting.	organOil		1 14		·	:	:		116 88
rr Co. Belting. \$ 6 63 114  ca. Blacksmithing. \$ 6 63 27 90  Oil		-	1 14		:				20 2
ce. Blacksmithing. \$ 6 63  Oil Z7 90  Print Paint gWall, E. H.  et Co. Walnut Lumber.  Mason Labor.  Brick.  Brick.	ubber Co., Belting		-	-	:	:		:	1 14
Oil Primp Plunger Paint'g Wall, E. H. et Co. Walnut Lumber. Mason Labor Brick Advortation	Blacksmithing \$			0 27		:	:		12 90
Primp Plunger Paint'g Wall, E. H.  Net Co. Walnut Lumber.  Mason Labor  Brick.		:	27.80	:		:			25 25 26
net Co. Walnut Lumbor.  Mason Labor  Briok.			:	14 75		:		:	14 75
Mayon Labor.  Brick  Brick  Advorting			- <del>·</del>		\$ 310 35				301 38
Mason Labor Brick	binet Co. Walnut Lumber.		- <del>-</del>	:	10 00		:	:	10 00
			:	;- :	88 10	:		:	28 10
				:	9	:	:		9 9
	Plain Dealer Pub. Co Advertising	- <u>:</u>	-	<del>-</del> :		\$ 20 00			90 OS
A. A. McDonell Estimate	:	:	-	<del></del>	:	1,916 75	:		1,916 75
A. A. McDonell Labor and Mater'll	;		<del>-:</del> :	<del>-</del> :	-:	28 78	-	\$ 155 30	33 35 35

ARSTRACT OF EXPENDITURES FOR AUGUST, 1878-CONTINUED.

BILLS RENDERED BY	FOR	Pipe Ex-Gen'l tension. Rep'rs.	Gen'l Rep'rs.	Office and Gen. Expens's	Office Engine Engine Con- and Gen. House House Struction Expens's Rep rs.	Engine House Rep'rs.	Con- struction	Crib Super- struct're	New Botlers.	Crib Protec'n	Total.
H. C. Currier	Stone		:	:	:	:				\$ 534 15	\$ 534 15
l. Sturtevant.	Lumber		:	:		:		:	:	7.	7 25
Cleve. S. M. Lumb'r Co.	;		:		:			:	:	235 428	285
Lake Erie Iron Co	Iron Bolts		:		:		:		:	88	99
J. C. Tears	Stone.	•			:	:		:		286 00	286 00
Ward & Jackson	Blacksmithing		:		:		:			456 57	456 57
Kelly Isl'd Lime Co	Stone		:	:	:				:	240 00	240 00
Peoples' Gas Light Co. Gas	Gas		:		\$ 18 90						18 90
Strong, Cobb & Co	Oils, etc		\$ 6 41	:				:			6 41
Leader Printing Co	Advertising		:	. !	10 67			:			10 67
J. Herig & Son	Office Desk			\$ 100 00		:		:			100 00
M. B. Sturtevant	Use H'rse & Wag'n		:	10 00				:			10 00
P. Smith	Use of Lighter		:	:		:				152 06	158 08
P. Smith	Use of Tugs		:	:						144 50	144 50
Cleve. Ste'm Boll'r Wks Estimate.	Estimate		:					:	3,107.28		3,107
Total		SR 448 14	71 97	#1 mm 04	1 433 98	60.1	95340 OK	02 888 98	83.168.79		\$2 953 95 \$15 pm Fo

ABTRACT OF EXPENDITURES FOR SEPTEMBER, 1878.

.fвзоТ	4,847 07	3,257 31	270 75	158 30	28 91	4 15	14 07	17 65	3	1 50	99 28:	20	% 2	5 to 20	275 G
Crib Repairs.	391 37	:	:	:		:::::::::::::::::::::::::::::::::::::::	:	:		:	:	:	:		: :
Crib Protection	:	:		:	:			:			:	:			_:
New Bollers.	412 77		- - - -		:		:	:		:		:			
Crib Super- structure.	519 21	:			:			:	:	:		:			:
('onstruction.	:	:	:	:	:	:	:		· :	:	<u>:</u>	_			
Engine House	_:	:	:	:	:	:	• - :	:	:	: :	- <u>:</u> - <u>:</u> :	-	_:	- :	- '
Expenses.	1,154 67	<u>:</u> :	:	:	:	:	- :	<u>:</u> :	- : :	:	- :	3 45	;  ::	_: :	:
Office and Gen'l Expenses.	1,455 94 1,1		:	:		:	:		:	-:		-::::::::::::::::::::::::::::::::::::::	# 8	. 02	275 00
General Repairs	57 392 54 1,455 94		<b>2</b> 2	:	- : - <u>:</u>		- · _ :	17 66	43 68	1 50	8 8	35		 :	<del>-</del> -
Pipe Extension.	530 57	3,257 31	246 00	158 30	<b>38</b>	<b>+</b>	14 07	:	_ :	:	:	_ :	:	:	: 
MOR.	Labor	Pipe and Castings.	Valves	Pig Lead	Packing.	Coal	Wood Plugs.	Blacksmithing	3	Repairing Lamps	Use horse and wagon	White Lead and Oil .	Fittings	Gus	Office Rent.
HILLS RENDERED BY	Pay Rolls	Lake Shore Foundry	Lord, Bowler & Co	Gibson & Price	Henry Steigmeier	John Wagner.	Fred Hempy	J. Stovering & Co	Thos. Manning	K. Hartman	M. B. Sturtevant	Strong, Cobb & Co	Worswick Manuffe Co.	Clevel'd Gas Light Co	E. Cushing

ABSTRACT OF EXPENDITURES FOR SEPTEMBER, 1878-CONTINUED.

BILLS RENDERED BY	FOR	Pipe Extension.  General Repairs	Cxpenses.	Engine House	Engine House Repairs.	Water Meters.	Construction.	Crib Super- structure.	New Bollers.	Crib Protection	Стір Кервігя.	.latoT
Short & Forman	Stationery.	<u>                                     </u>	8 8			<del> </del>	÷	<u></u>				3 00
W. H. Luetkemeyer	Rep'r Lawn Mower.		97		<del></del>	- :	· -:	- <del>-</del>	- :	:		: 9
J. H. Fleharty	Wax Seal Stamp		0E 21	:		:	- <u>:</u>	- <u>÷</u>			:	55 05 05
J. B. Savage	Books	<u>:</u> :	# 6		:- :	- <sup>:</sup> - :	- :				:	2 4
Forest City Packing Co	Packing	:	- :	10 12	: :	- :	- :		:	:	:	10 12
Edwards, Townsend & Co	Brooms	- :		1 00	:	- :-	: :		:		:	1 00
J. Simmons	Labor			45 00	· -	- <u>!</u> .	-÷		:			45 00
W. Gaul	Lake Sand	:-		200	:	- <u>-</u> -			15 00			17.50
People's Gas Light Co	Gas			18 45	 :	<del>-</del>	<u>.</u>		:		:	18 45
M. T. Thompson	Coal			568 18	 :				:		-	SSS 13
Globe Iron Works	Blacksmithing	- :	. <u>:</u>			:		147 90		:		147 90
Thatcher & Thompson	Iron Work	- :	_		<b>3</b> 2	:	- :		:			æ ₹
Ferris & Garfield	Stone.	-: -: -:	_ :	-	-:- :		:-		:	1,040 18		1,040 18
H. C. Currier.			_				-			00 0		00 024

ABSTRACT OF EXPENDITURES FOR SEPTEMBER, 1878-CONTINUED.

BILLS RENDERED BY	FOR	Pipe Extension.	General Repairs	Office and Gen'l Expenses.	Engine House	Engine House Repairs.	Water Meters.	Construction.	Orib Superstructure	ием Воцега.	Crib Protection.	Crib Repairs.	Тоғаі.
J. Geisendorfer.	Stone.		† <u> </u>				Ī				88		\$ 525 00
C. Bennett	Use of Raft					<u>:</u>	_ :		9 75			_ :	6
Samuel Law	Boat Hire		:		:	:	:	:				1 75	1 75
Cleveland Lumber Co	Lumber	:	:						:	:		ર જ	<b>3</b> 5
Lake Erie Iron Co	Iron.		<u>:</u>	:	_ :	:	:	: :	 	:	:	38 30	88
Bell, Cartwright & Co	Lumber	:	- <del>:</del>	:				-	:	:		4 9	44
Warner & Driscoll	Tugs and Towing	- <u>:</u> :: ::	- <u>:</u>	:	. :	:	:	- :		:	:	13 50	13 50
Clev. Ship Chandler Co	Tar	- <u>:</u>				:			:		:	88	8
Pat Smith	Stone, etc	- :- : :	:	:		-	:		-		:	545 48	4,416 63
J. W. Scott	Carpenter Work	<del>-</del> -	<del>-</del>		:	:	:	:	88	2,549 14 3,871	3,871 15		88 88
Clev. Steam Boiler Co	Estimate		_ <u>;</u>	-			:		_		:	:	2,549 14
R. T. Lyon	Cement	- <u>:</u>		:	:			:		15 50		_	15 50
Kollar John I June A.								-		2			2 00
TOTAL PRINTED TO THE CO.	Lime		<u> </u>			:		77 001		-		_	1 <del>6</del> 0
Martin Faulhaber	Carpenter Work		-	:					:				

ABSTRACT OF EXPENDITURES FOR SEPTEMBER, 1878—CONTINUED.

Тоғы.	52 91	154 05	£7. 80	300 00	45 00	549 13	20,993 16
Crib Repairs.		:		200 00	:	:	1,229 28
Crib Protection.			:		:		6,315 38
Mew Boilers.					:		2,999 41
Стір Вирегатгистиге.	:		_ :-			549 13	1,259 79
Construction.	16 35 25	:			- [		213 35
Water Meters.		154 05		:	:		90 #3
Engine House Repairs.	:	-	£27 88		:	:	8
Expenses.		i		:			31 514 25 1,822 42 1,823 37 434 62 154 66 213 35, 1,236 79 2,989 41 6,315 38 1,239 28
Office and Gen- eral Expenses.	:	:	:		£ 8		1,822 42
General Repairs	- <u>-</u>	-	-	:	-		12 35 35
Pipe Extension.	:	- : : : :	:	:	:		4,227 31
FOH	Painting	Water Meters	Blacksmithing	Hulk Dreadnaught	No. 2 Patent Elevator	Estimate	
BILLA HENDERED BY	J. Turton	H. R. Worthington	Cuy'ga Steam Furn'ce Co Blacksmithing	M. Driscoll	D. S. Bailey	A. A. McDonell	Total

ABSTRACT OF EXPENDITURES FOR OCTOBER, 1878.

HILLS RENDERED BY	E SE	Pipe Exten- slon.	Gen'l Rep'rs.	Office and Gen. Expens's	Office Engine Engine Aduse Expens's Expens's Repairs	Engine House Repairs.	Crib Sup'r- struc'e.	New Bollers.	Crib Protec tion.	Crib Repairs.	Total.
Pay Rolls	Labor	\$205 05	\$387.96	\$1,544 23	\$387 96 \$1,544 23 \$1,158 82		:	787 8	787 07	\$1,540 64 \$5,623 77	77 EZ9'9\$
R. D. Wood & Co	Fire Hydrants	370 00	:		:				:	:	370 00
Lake Shore Foundry	Pipe and Castings	51 72	35 E-	:	: : :				:	:	144 43
Gibson & Price	Pig Lend	120 56	:		:			:			120 56
Lord, Bowler & Co	Valves.	63 50	10 50		: : :			_			14 00
Henry Stolgmeier	Packing and Twine	£-	6 75	:					:	:	14 18
J. Stovering & Co	Blacksunfthing	*	æ	6.75				:	-	:	16 05
Thos. Manning	Blacksmithing	:	13 86	€		:	_ :	•			14 46
Chas, C. Dewstoe	Plumbing		10 49		:		:	: :	:	: _::	10 49
K. Hartman	Lamps	:	10 15			:			. :	:	10 15
Cleve, Cement Pipe Co.	Cement		8 30			:				:	95 32
W. P. Southworth	Wood Pails		2			:	:	:		:	5
E. W. Ensign, Estimate Lumber.	Lumber	:		\$	le					± 8	465 94
Russell Lime Co	Lime Stone				-			17 00		8	115 00
Russell Lime Co	:			:	- :-	- !		:	:	23	31 35
Kolly Island Lime Co.	:				_			2.00		161 95	168 25

ABSTRACT OF EXPENDITURES FOR OCTOBER, 1878—CONTINUED.

BILIA KENDERED HY	FOR	Pipe Exten- siof.	Gen'l Rep'rs.	Office and Gen. Expens's	Office Engine and Gen. House Expens's Expens's	Engine House Repairs.	Crib Sup'r- structure.	New Boilers.	Crib Protec- tion.	Crib Protec- Crib tion. Repairs.	Total.
Samuel Law	Boats.		:			:				1 70	<b>8</b> 1 70
W. Bingham& Co	Hardware.	:				-	-	:		104 89	166 55
John Carnegie.	Paid for Labor	:				:	:	:		9 00	9 00
Thos. Quayle & Sons Lumber, etc	Lumber, etc	:	:		,	:	:	:		188 98	1×8 85
Bell, Cartwright & Co	:	:		:	:	:		:	:	25 25	97 18
Jacob Meyer.	Men Unloading Stone.	:	:	:	:	:		:		48 00	48 OC
Ohio Nut and Bolt Co   Bolts, etc	Bolts, etc.	:		:		:	:	:		43 64	<del>1</del> 5
F. Sturtevant.	Lumber	:	:		:	:		:		14 90	14 90
C. L. Newell & Co	**************************************	:	:		- : : : : : : : : : : : : : : : : : : :	:	:	:	:	21 48	21 <del>48</del>
Clev. S. M. & Lumb'r Co	:	;	:	:		•		·		69 45	69 45
Woods, Perry & Co	;					:	:	:		178 53	178 53
H. C. Currier	Stone	:			:	:	:	:		108 50	108 50
M. B. Sturtevant	Horse and Wagon	:	\$ 14 00			:	:	:	:	:	14 00
Herman Schall	Lunches	:	:	:	:	:	:	:		138 531	83 83
Jos. Lavayea	Lumber	:	:	:	:	:		•		şē	¥.
Ward & Jackson	Blacksmithing	:			:	:		:	:	197 70	197 78

ABSTRACT OF EXPENDITURES FOR OCTOBER, 1878.—CONTINUED.

BILLA RENDERED BY	FOR	Pipe Gen'l Ex ten- Rep'rs. sion.	Gen'l Rep'rs.		Office Engine and Gen. House Expens's Expens's	Engine House Repairs.	Crib Sup'r- structure.	New Bollers.	Crib Protection.	Crib Rep'irs	Total.
Thos. Willson & Co	Sub-Marine Diving	:								\$2,340 00	\$2,340 00
Cleve'd Steam Boiler ('o.	Estimate	-					<u>:</u>	\$3,550 59	:		3,550 119
Worswick Manuf'ng Co.	Pipe Fittings	-:		# 12 B	8 × 00	:	:		:	:	35 35 36
Leader Printing Co	Reports, &c	:	:	297 80			- :		1	:	297 80
Wm. S. Wight	Meter Boxes.	:	٠	97 873			:		:	-:	8 3
Cleveland Gas Light Co Gas for Offices	Gas for Offices		:	<del>4</del>		:	:		'-	:	4 86
Waechter am Erie	Advertising	:		9 00		:	-:	-:	•		9 00
M. Driscoll	Blocks, &c	:		10 00		:	:			:	10 00
Peter Gerlach	Saw			8 80					- : :	:	80 %
V. C. Taylor	Services as Agent		:	10 00	• :	•	:		:	:	10 00
Vincent, Sturin & Bars'w	Office Chair	:	:	7 50			-:		:	_ :	7 50
P. Ryan	Cartage	- :	•	3 75		:	•		:		8 75
H. W. Luetkemeyer	Nipper Blades	:		1 00		:	:		:	:	1 00
Rhodes & Co.	Coal for June, 1878		:		82 216	:	:		:	-	912 33
J. J. Parsons	Iron Boxes	:		:	8		:		:		€ 8
J. Ingraham	Cotton Wante				\$\$ \$\$	:		:	<del></del>	:	48 83

ABSTRACT OF EXPENDITURES FOR OUTOBER, 1878-CONTINUED.

Total.	÷ :	45 00	25 25	<b>88</b>	19 80	1 50	252 13	88 80	33 38	98 00	00 % :	12 00	98 00	188 56	8 13	00 1,047 00
Crib Ropairs.	: :		:	:	•			. :		:				:	:	\$1,047
Crib Protec tion.			. : : : : : : : : : : : : : : : : : : :					38 00 ···	3)					-	-	00 270,12
New Boilers.		:				:	\$ 252 13	8	\$1 \$8	98	2 00	12 00	£3 ±6	172 12		
Chb Sup'r structure.			:			_ :		_ :	_ <u>:</u>		:	:	:	:	\$ 1 50	_ 
Engine House Repairs	:	45 00		38 40	:	\$ 150	:	:	:	:	:		:	18 44		
Engine House Expens's	<b>مه</b>	45 00	2 75	38 40	19 80		•	:			:	:	:		:	•
Office and Gen. Expens's		:			-						-	- : ·	\$ 4 60	:	188	
Gen'l Rep'rs.	· :	_ :			:	:	:		:	:			:	:	:	:
Pipe Gen'l Exten-Rep'rs. g	- :				:	-	:			:	-		:			
FOR	Cotton Duck	Labor	Brooms	Cylinder Oil	Gas	Repair of Gauge	Iron Beams	Fire Clay	Stone	Valve Work	Copper Work	Charcoal	Cement	Blacksmithing	Plumbing	Towing, etc.
FROM	Upson, Walton & Co	J. Simmons	Edwards, Townsend & Co Brooms	E. H. Kellogg	People's Gas Light Co	('leve'd Steam Gauge ('o. Repair of Gauge	(Teveland, Brown & Co   Iron Beams	G. H. Barstow	Forest City Stone Co	Cuyahoga S. F. Co	Bourn & Knowles	Van Tuyl Facing Co	R. T. Lyon	Globe Iron Works	Geo. S. Paine	Robert Greenhalgh   Towing, etc

ABSTRAUT OF EXPENDITURES FOR OCTOBER, 1878—CONTINUED.

Total.	\$ 18 70	90 06	25 STB	1,171 07	\$17 94 \$1 50 \$5,067 53 \$901 44 \$7,082 54 \$19,315 77
Crit				\$901 44 \$ 269 63	\$7,082
New Crib Crib Bollers. Honce. Repairs.			:	\$901 4	3 \$901 4
New Bollers.	\$ 16 70				\$5,067 5
Crib Sup'r- structure.		. :	. :		\$1 50
Pipe Gen'i Office Engine Engine Engine Esten-Rep'rs, Expens's Expens's Expens's Repairs.			573 24	-	l
Engine House Expens's			*		\$2,896 79
Office and Gen. Expens's	:	90 00		:	\$821 65 \$563 88 \$2,012 50 \$2,896 79
Gen'l Rep'rs.	\$ 2 00			:	\$563 88
Pipe Exten- sion.		:	:	:	\$821 65
FOR	Lead, etc	Indicator	Coal		
BILLA RENOERED BY	Strong, Cobb & Co Lead, etc	E. B. Nicklaus	M. T. Thompson & Co Coal.	P. Smith	Total

ABNTRACT OF EXPENDITURES FOR NOVEMBER, 1878.

	-	į	;  -			1:					
BILLA RENDERED BY	Ž Pipe Exten	General Repairs.	Office and Gen. Expens's	Office Engine and Gen. House Expens's Expens's	Eng. House	Water Meters	Con- struction	New Bollers.	Crib Protoc'n	Crib Protec'n Repairs.	Total.
Pay Rolls	Labor.	86 86 87	1,584 01	1,161 50	<u> </u>			79 067		900	
('level'd Gas Light ('o	Gas and Fire-clay 6 00		10 50					}			
P. Ryan	Cartage	_			_					:-	8
J. Stovering & Co	thing	3		:		:	 : : :		:	:	1 30
M. B. Sturtevant	Horse and Waron							:	:		æ 74
Peck & Romis	Cachota	3 8		:	<u> </u>		:	:			14 00
man Managan	LINAMORE	2			-		· · ·				1 50
Those manning	Blacksmithing.	25 26		:	<u>:</u>	:					Z S
R. T. Lyon	Cement	3 30	:		•						30.
J. B. Savage	Book of Record.		0% 21			:					6 6
E. J. Chubb.	Signs	· -÷	18 00	_	_						3 2
J. Graves	Plumbing	:	9 50	_ :					: : : : :		3 5
H. R. Worthington	Water Meters	:				33				- : :	
Plain Dealer Pub. Co	Notice water r'nts		5.0								8 8
Herald Pub. Co	:		91				:			-	3 9
J. Wagner	Coal for office		.1								2 8
W. S. Wight	Meter Boxes		35 15 15	_:	<u>:</u>						- H

ABSTRACT OF EXPENDITURES FOR NOVEMBER, 1879-CONTINUED.

BIIIA KENDERED BY	FOR	Pipe Exten- sion. General Repairs.	Office and Gen. Expens's	Engino House Expens's	Eng. House Repairs.	Water Meters. st	Con- struction	New Boilers.	Crib Protec'n	Crib Repairs.	Total.
People's Gas Light Co Gas.	Gas.	=		% % •••		<u>  :</u>   :				:	<b>8</b> 9
M. T. Thompson	Coal	:	_:	831 37	<u>:</u>	<u>:</u> :	:	:		:	831 17
J. Simmons	Labor.	- <u>;</u> - <del>;</del>	:	45 00 .	<u>:</u>	- : :	:	:		:	45 00
K. Hartman	Repairing Lamps.	- :	:	1 00	:			:		6 35	. 35
Strong, Cobb & Co	White Lead	- ;		1 69	<u>:</u> :	- <u>:</u> :	-	\$ 24 00		-	원 종
Geo. A. Stanley	Lard Oil.	:		27.44	<u>:</u>		:	:			<u>1</u>
E. H. Kellogg	Cartage bl. cyl.oil	:		25	_ <u>:</u>	: : _:	:	:			<u> </u>
Clev. St'm Boiler Works. Estimate	Estimate	;		:	<u>:</u>	:		4,279 54			4,279 54
Geo. H. Barstow.	Fire Clay		:	:	<u>:</u>	_ <del>:</del> -		22 50		:	05 21
Worswick Manufig Co	Pipe Fittings.	:	6 65	-	:	<u>:</u> :	- :	<b>88</b>		:	102 90
Elijah Smith	Moving Bollers	:			:		:	180 00			180 00
Wm. Bingham & Co	Hardware	:	2 75		<u>:</u>	:	:	. 16 28		107 14	128 17
Hernan Schall	Meals for Labor's.	<u>:</u>			_ <u>:</u>	<u>:</u> : :		:		138 41	138 41
P. Smith	Stone, etc	:		:		<u>:</u> :	:	:	\$ 47% 38	95 96 97	508 98
Upson, Walton & Co.	Rope, etc	<b>38</b>	25 25		<u>:</u> :	:	:	:	:	_:	75 40
Geo. Breyman	Submarine Div'R.					 :	:	:		1,560 00	1,590 00

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HILLA RENDERED BY	¥Ç.	Pipe Ext €  sion.	General Repairs.	Office. and Gen. Expens's	Engine House Expens'	Eng. Hovæ es Repairs	Water Meters	Con- struction	New Bollers.	Crib Protection.	CMb Repairs.
Rhodes & Co	Coal for Scow	:			:			:	:		89 88
E. W. Ensign, Est	Timber	_ :				-	:			:	86
Summit Mine Coal Co	Coal for Scow	<u>:</u>			:				:	:	10 00
John Blatt	Blacksmithing		:		:			\$16 07		:	% %
Woods, Perry & Co	Lumber	_:	:	:	:	- :	:	:			88
Globe Iron Works	Blacksmithing	:	:		:	<b>३</b>	:		<b>88 82 72</b>	:	587 25
Jacob Myer	Labor	i	_	:	:	_ :	:	:		:	14 50
Kelly Island Lime ('o	Stone and Lime	-:		:				:	1 00		207 00
Robert Greenhalgh	Towing, etc	i					:	:	:		873 00
Andrew Lacour	Blacksmithing	:		:	:	<u> </u>	:		:		77 789
A. T. Van Taswel	Hardware	÷.		91 81	11 30	<u> </u>	:		:		
Total		).   12:	50 888 SS	\$1,784 71	\$2,102 75 2 42	3	\$227 65	\$16 07	\$5,198 75	\$478 38	\$5,065 46
1	1		- 1			- 1		-   			

ABSTRACT OF EXPENDITURES FOR DECEMBER, 1878.

HILLS RENDERED BY	FOR	Pipe Ex- General tension. Repairs.	General Repairs	Office Engine and Gen. House Expens's	Engine House Expens's	Engine House Repairs.		New Crib Crib Bollers. Protec'n Repairs.	Crib Repairs.	Total.
Pay Rolls	Labor	:	\$ 380 61	\$1,528 63 \$1,154 50	\$1,154 50	:	\$282	:	<b>\$</b> 814 76	\$4,171 45
Lake Shore Foundry	Pipe and Castings	- 60 09 <b>\$</b>	_ :				:		:	<del>3</del> 5
Lord, Bowler & Co	Valves	13 50	:		:	:				13 50
Fred Hempy	Wood Plugs	1 00	:	:::	:					1 10
Worswick M'f'g Co	Pipe Fittings	:	<b>8</b>		- 19					92 88
Thos. Manning	Blacksmithing.		934		:				. :	#6 o
J. Stovering & Co.	Blacksmithing		14 65		:				-	# 65
Peck & Bemis.	Rubber Gaskets	:	3 75	5	:	:			:	8. E
Geo. Cooper	Duck		3 00	0		_:			:	3 00
W. Bingham & Co	Hardware	_ :		5 18			11 11	14 15	**	47 74
E. Cushing	Office Rent	•		275 00	:			: :	:	275 00
Jno. Wagner	· Lump Coal			00 1-						00 1
Short & Foreman	Stationery	-		5 70			:	:		5 70
Clevel'd Gas Light Co	Сви			11 10		-	:			11 10
S. C. Brooks	Carpenter Work			7 14	· · · · · · · · · · · · · · · · · · ·			:		11 12
I B Same		_		•	- 45					A 25

ABSTRACT OF EXPENDITURES FOR DECEMBER, 1878-CONTINUED.

BILLE RENDERED BY	FOR	Pipe Ex- General tension. Repairs.	General Repairs.	Office Engine and Gen. House Expens's	Engine House Expens's	Engine House Repairs.	New Boilers.	New Crib Crib Boilers, Protec'n, Repairs.	Crib Repairs.	Total.
Miss A. Pfeifer	Laundry			<b>4</b> 00 <b>★</b>	:	. :	:	•	- : :	00 <b>+</b>
J. Simmons	Watchman		:		\$ 45 00	:				<del>12</del> 00
People's Gas Light ('0, Gas	Gas		:	:	% %	:			- :	æ ₹
Meriam and Morgan	Carbon Off			_ :	98 9	:	:		-	96 9
Edwards, Townsend & Co Brooms, &c.	Brooms, &c	:			25.55	:	:			95 ÎĈ
Geo. H. Barstow	('artage	:		:	្រ 00 ត	:	:	:		80 80 80
Strong, Cobb & Co	Oil, &c				1 38	:	- <u>:</u> :	:		1 38
Globe Iron Works	Blacksmithing			:	-	12 00	\$ 52 13			61 90
Clevel'd St'm Boiler W'ks Final Estimate	Final Estimate	_ :			:	:	2,043 GS			2,043 65
Russel Lime Co	Lime Co				:	:	17 50			17.50
Јак. Рагпап	Brass Castings	:				:	- 28 - 28 - 28			<b>3</b> 2 35
Robert Greenhalgh	Towing Bill			:		:	:		\$ 573 00	573 00
Andrew Lacour	Blacksmithing		:			:	:	:	98 6	<del>3</del> 8 5
C. L. Newell & Co	Oak Lumber			:	-		:		15 90	15 90
Thos. Willson.	Sub-marine Diving	:			:	:	:	: 	210 00	210 00
H. Schall	Lunches for Men		: ::	-	:	:	;		98 ×	80 %

ABSTRACT OF EXPENDITURES FOR DECEMBER, 1878—CONTINUED.

	1	!	1	1	1			1	1	
BILLA RENDERED BY	FOH	Pipe Ex- tension.	General Repairs.	Office. and Gen. Expens's	Engine House Expens's	Pipe Ex. General Office. Engine Engine tension. Repulrs. Expens's Expens's Repuirs.	New Boilers.	Crib Prot'et'n	New Crib Crib Rollers. Prot'ct'n Repairs.	Total.
Shodes & Co	Cont.								97	<del>•</del>
30hnert & Blake	Use of Blocks	:	:						1 50	1 50
W. Kaufman	Adv. Water Rents	: :		00 7 \$	- :-	:	:	- ::	:	4 00
. Simith	Use of Derrick	:	:			-	:		% 70	% 22
Hobe Iron Works	Blacksmithing					_ : :	:	\$ 973 58		973 58
Robert Roach	Kindling Wood	:	:	≈ ≈	3.35	:	:	:	:	83
f. T. Thompson	Coal				₹ <b>109 \$</b>	:			:	60 <del>1</del>
Total		\$ 74 69	\$ 441 01	\$ 74 69 \$ 441 01 \$1,857 35 \$1,848 48	\$1,848 48	1	\$2,463 96	\$ 973 58	\$ 9 77 \$2,463 96 \$ 873 58 \$1,662 11 \$9,360 95	\$9,380 95

# RECAPITULATION.

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15,619 37	:	:	:	:	:				:	:	:			:		•								:	:					:											Crib Reputrs.
10,920 9%			:	:	:	:	:	:	:	:	:			:	:		:	:	:			:	•	:	:	:		- :			:			:	:	:	:	:	Crib Protection	×	5
18,838 37	:	÷	:	:	:	:	:	:	:	:	:	:	:	•	:		÷		:	:	•	:	:	•	-	:	:	:	:	:	:	•	:	:	:	•	:	•	•	New Boilers	Ľ
16,612 86	-:		:	:	:		:	:	:	:	:	:	:	:	:		:	:	:		•	:	:		:	:	:	:		:	- :	:	:	:	•	9	Ξ	÷	Crib Superstructure	£	7.
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1,729 56	- :-	:	:	:	:	:	:		:	•	:		:	:	•	:	:	:	•	:	:	:	•	:	:	:		:	:	:	:	:			:	:	:	:	Water Meters	Z	ي
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24,353 06	:		:	:	:	:	:	:	:	:			:	:	:	:	:	:	:			:	:	:	:	:	:	•	:	:	:	:	:	\$2	₹.	Ξ	-	М	Engine House Expenses.	æ	ž
21,738 98	<sup>-</sup> :	:	:	:	:	:	:	:	:	•	•	:	:	:	•	:	:	:	•		:	:	•	:		:	:	:	:	:	4	- 5€	ĕ	¥	=	62	-	₹	Office and General Expenses	ತ	٠
5,878 33	_		•	:	:	:	:	:	:	•		:		:		:	:	:	•	:	:	:		:	:	:	•	:	:	:	:	•				:	- :	œ.	General Ropairs	콩	ಕ
8 27,257 58		:				:	:																																		

#### INVENTORY OF MISCELLANEOUS STOCK AND CAST-INGS ON HAND AT RESERVOIR, JAN, 1st, 1879.

10 20 inch pipe.

1 20 inch pipe, 6 feet 8 inches long, 34 feet 3 inch pipe, in pieces.

1 20 inch pipe, 4 feet long.

1.00 % 1...

1 20 inch pipe.

11 feet of 20 inch pipe, in pieces.

6 20 inch pipe, 8 feet long.

3 20 in. pipe, with sockets, 2 ft. long.

1 36 inch pipe, 10 ft. 6 in. long.

1 36 inch pipe, 3 ft. 9 in. socket.

1 36 inch pipe.

6 16 inch pipe.

1 16 inch pipe, 2 ft. 4 in. long.

2 24 inch pipe.

1 24 inch pipe, 10 ft. long.

1 24 inch pipe, 10 ft. 6 in. long.

2 30 inch pipe.

1 30 inch pipe, 8 ft. long.

1 30 inch pipe, 8 ft. 10 in. long,

1 30 inch pipe, 3 ft. socket.

1 30 inch pipe 3 ft. 8 in. long.

1 30 inch ½ curve ½ length plain.

1 30 inch pipe, 3 ft. 7 in. socket.

1 30 inch curve.

9 10 inch pipe.

5 10 inch pipe, 8 ft. long.

7 10 in. pipe, from 5 to 8 ft. long.

35 feet of 8 in. pipe, in pieces.

7 6 inch pipe.

44 feet of 6 in. pipe.

73 feet of 4 in. pipe.

1 3 inch pipe, 6 ft. 10 in. socket.

p.pc, in piece

1 hitching post.

1 cyl. valve box.

1 6 inch Y.

1 24 inch valve, Bos. Machine Co.

1 24 inch valve, Scowden.

1 8 inch tee.

1 8 to 4 inch tee.

1 10 to 6 inch tee.

1 6 inch tee.

1 6 to 4 inch tee, cement.

4 4 inch tees, cement.

1 4 inch tee.

1 12 inch cross.

2 8 inch crosses.

4 6 inch crosses.

4 4 inch crosses, cement,

1 4 inch cross.

5 16 inch curves.

1 16 inch curve, 3 ft. long.

1 30 inch cap.

1 20 inch cap.

1 30 inch clamp.

3 36 inch clamps.

2 24 inch clamps, new.

2 24 inch clamps, old style.

4 16 inch socket clamps.

2 24 inch socket clamps.

5 16 inch clamps.

#### INVENTORY OF MISCELLANEOUS STOCK AT RESER-VOIR.—Continued.

* **/116;	CONTINCED.
1 24 to 20 inch reducer.	1 steel shovel, 1 snow shovel.
1 30 to 24 inch reducer	1 broom.
3 12 to 6 inch reducers.	1 garden rake.
1 8 to 6 inch reducer.	2 hay rakes.
1 6 to 4 inch reducer.	1 hay fork.
1 10 to 8 inch reducer.	2 scythes.
1 4 to 3 inch reducer.	, 2 garden hoes.
3 3 inch elbows.	1 hand saw.
1 6 inch elbow.	1 axe.
2 6 inch ½ bends.	1 lawn mower.
2 8 inch # bends.	2 crow bars.
2 20 inch sleeves.	1 sickle.
2 16 inch sleeves.	1 claw hammer.
2 10 inch sleeves.	2 paint brushes.
1 4 inch sleeve.	1 copper oil can.
1 4 inch reversed curve.	1 whet stone.
2 30 inch sleeves.	20 pounds white lead.
1 grindstone.	½ gal. linseed oil.
2 furnaces.	1 monkey wrench.
2 lead pots.	2 6 mch wrenches.
2 ladles.	1 20 inch lever wrench.
2 lamp posts and lamps.	1 30 inch wrench.
1 top and bottom frame to valve box.	1 tool box.
20 pounds packing.	20 picks.
51 feet of 2½ inch wrought iron pipe.	600 pounds lead,
19 pine scantling, 16 ft. 6x4 in.	½ gal. oil can.
½ barrel of salt.	2 capstan bars.
50 feet ‡ hose.	1 set of calking tools.
1 empty oil barrel.	7 cold chisels.

2 cold sets.

1 wheel barrow.

1 24 inch pipe.

# INVENTORY OF MISCELLANEOUS STOCK AT RESER VOIR.—Continued.

1 sledge.	2 calking hammers.
1 pair callipers.	2 water pails,
1 hydrant wrench.	1 monkey wrench.
1 hand saw.	1 axe.
1 tape line.	1 water dipper.

# MISCELLANEOUS STOCK OF CASTINGS, TIMBER, &c.. ON HAND AT ENGINE HOUSE GROUNDS.

<b></b>	
3 timbers 10x14x28, hemlock.	1 24 inch pipe 9 ft. long.
1 timber 10x14x82, hemlock.	2 24 inch pipe 2 ft. long.
2 timbers 10x10x15, hemlock.	1 30 inch pipe 3 ft. 10 in. long.
1 timber 10x10x11, hemlock.	1 30 in curve 5 ft. long.
1 timber 10x14x17, hemlock.	1 30 inch to 24 inch reducer.
1 timber 10x14x28, hemlock.	3 36 inch sleeves.
1 timber 10x14x19, hemlock.	1 36 inch sleeve, irregular.
3 timbers 10x14x22, hemlock.	1 30 inch sleeve.
1 timber 10x14x14, hemlock.	1 24 inch sleeve.
2 timbers 10x14x27, hemlock.	26 inch sewer pipe 18 in. diameter 2
1 timber 12x12x24, pine.	feet long.
2 timbers 12x6x16-3, pine.	2 sewer pipe 9 inch curves.
9 timbers 24x6x12, oak flitch.	1 12 inch sewer pipe.
1 timber 18x6x8 oak flitch.	. 1 6 inch sewer pipe.
1 timber 18x6x26, oak flitch.	1 30 inch check valve.
281 Drift bolts, 1x25.	1 small hose reel.
3 large derricks.	100 feet 3 ply # hose.
1 wro't iron pipe 24 in., 20 ft. long.	1 boat belonging to crib.
1 wro't iron pipe 24 in., 40 ft. long.	1 steel garden rake.
1 wro't iron pipe 24 in., 26 ft. long.	4 wheel barrows.
2 36 inch pipes.	1 lawn roller.
1 30 inch pipe.	1 lawn sickle.

# INVENTORY OF MISCELLANEOUS CASTINGS IN STOCK AT STORE ROOM BACK OF TAYLOR & KILPATRICK'S STORE.

1 12 inch pipe, 3 ft. 7 in., plain.	1 10 to 8 inch cross.
1 12 inch pipe, 2 socket.	1 10 to 6 inch reducer.
1 12 inch pipe, 2-6 socket,	1 12 to 6 inch reducer.
2 12 inch pipes.	1 12 to 8 inch reducer.
1 10 inch pipe.	1 12 to 10 inch reducer.
1 10 inch pipe, 10 ft. 9 in., plain.	13 8 to 6 inch reducers.
4 10 inch pipes, from 7 to 8 ft.	1 10 to 4 inch reducer.
4 8 inch pipes.	1 8 to 4 inch reducer.
7 8 inch pipes, from 3 to 10 ft. long.	2 4 to 3 inch reducers.
1 6 inch pipe.	1 6 inch elbow.
7 6 inch pipes, from 4 to 11 ft, long	2 4 inch elbows.
45 ft. of 6 in. pipe in smaller pieces.	1 3 inch elbow.
150 ft. of 4 in. pipe in pieces 3 to 6 ft.	4 4 inch $\frac{1}{8}$ bends.
3 3 inch pipes.	2 6 inch \(\frac{1}{8}\) bends.
3 24 inch sleeves.	1 8 <del>1</del> bend.
5 12 inch sleeves.	1 4 inch Y.
4 10 inch sleeves.	1 4 inch reversed curve.
1 10 to 8 in. tee.	6 8 inch clamps.
3 10 to 6 in. tees.	7 10 inch clamps.
1 8 inch tee.	2 12 inch clamps.
2 8 to 6 inch tees.	6 6 inch clamps.
4 6 to 4 inch tees.	2 4 inch clamps.
2 4 inch tees cement.	1 3 inch clamp.
9 4 inch crosses.	1 3 inch valve.
3 6 inch crosses.	1 pair callipers.

2 No. 2 valve boxes.

# INVENTORY OF MISCELLANEOUS PIPE, CASTINGS, &c., IN STOCK AT OFFICE.

1 4 inch tee.	5 extra top valve box frames.
4 6 inch tees.	7 bottom valve box frames.
3 8 inch sprinkler tees.	1 6 inch pipe.
1 6 inch sprinkler tee.	1 6 inch pipe 9 feet long.
1 3 inch sprinkler tee.	37 ft of 6 inch pipe in pieces.
3 8 to 6 inch reducers.	14 ft of 8 inch pipe in pieces.
1 10 to 6 inch reducer.	1 4 inch pipe.
1 8 to 4 inch reducer.	60 ft of 4 inch pipe in pieces.
8 4 to 3 inch reducers.	1 3 inch pipe
1 6 to 4 inch reducer.	16 ft of 3 inch pipe in pieces.
4 4 inch & bends.	2 furnaces.
3 6 inch \ bends.	4 lead pots.
1 8 inch & bend.	1 furnace a kettle for heating water.
3 6 inch elbows.	3 goose-necks for Manning hyds.
1 8 inch elbow.	· 12 ctr covers for cistern valve boxes.
7 8 inch sleeves.	17 2 inch unions.
1 6 inch sleeve.	21 2 inch couplings.
5 3 inch sleeves.	11 2 inch plain.
2 24 inch sleeves.	25 2 inch nipples.
3 6 inch reversed curves.	1 2 inch tee,
4 4 inch reversed curves.	1 2 to § tee,
8 fire hydrants (Woods).	64 ft of 2 inch pipe in pieces.
1 fire hydrant stock (Woods.)	1 2 in. run'g thread nipple, locknut.
1 3 inch curve.	13 1½ inch unions.
3 bottom cyl. for Manning hyds.	21 1½ inch couplings.
1 top cylinder for Mann'g hydrants	6 1½ inch elbows.
5 cylinder valve boxes.	3 1½ inch street elbows.
19 cylinder valve box covers.	3 1½ inch tees.
8 No. 1 valve boxes.	3 1½ inch to ‡ tees.

26 1½ inch nipples 2 to 12 in. long.

## 'INVENTORY OF MISCELLANEOUS STOCK, TOOLS, FITTINGS, &c., IN STORE ROOM AT OFFICE.

3 2 inch plugs. 1 plug for Manning hydrants. 6 11 unions. 8 14 elbows. 6 11 to 11 reducing couplings. 12 11 to 1 inch reducing couplings. 50 ft of 4 pipe. 12 1 to # inch reducing couplings. 3 14 inch couplings. 8 2 to 14 inch bushings. 8 14 to 14 inch bushings. 8 11 to 1 inch bushings 10 1 to # inch bushings. 5 1 inch unions. 12 1 inch elbows. 4 1 inch street elbows. 4 1 inch tees. 22 1 inch couplings. 4 4 inch wrought clamps. 7 11 nipples. 25 1 inch nipples. 12 # inch unions. 34 4 inch couplings. 11 # inch street elbows. 13 4 inch elbows. 5 4 tees. 44 # nipples. 27 ft of 1 inch pipe in pieces.

1 14 pipe 14 ft. 2 in. in length.

1 14 pipe 13 ft. 2 in. in length.

5 14 plugs.

3 14 caps. 5 1 inch caps. 8 1 inch plugs. 3 # plugs. 2 4 caps. 12 8 inch wrought clamps. 3 6 inch wrought clamps. 1 10 inch wrought clamp. 1 12 inch wrought clamp. 9 picks. 3 sledges. 1 axe. 2 crowbars. 2 long-handle shovels. 2 snow shovels. 1 grind-stone. 2 4 inch valves. 42 inch globe valves. 2 set of calking tools. 4 S wrenches. 3 monkey wrenches. 1 combination wrench. 1 machinist hammer. 1 calking hammer. 1 riveting hammer. 3 wood hydrant wrenches. 1 stuffing box wrench for wood hyd.

1 stuffing box wrench.2 street sprinkler wrenches.

#### INVENTORY OF MISCELLANEOUS STOCK, TOOLS, FITTINGS, &c., IN STORE ROOM AT OFFICE-CONTINUED.

OFFICE-	CONTINUED.
1 globe valve wrench.	4 capston bars.
1 large extension key wrench.	1 6 inch sprinkler tee.
2 reservoir wrenches	2 3 inch sprinkler tees.
2 hose wrenches.	10 4 inch sleeves.
1 street washer wrench.	1 3 inch sleeve.
1 stuff'g box wrench for Cinn. hyd.	2 6 inch sleeves.
1 die for manning hyd.	1 3 inch elbow.
1 steel jimmy.	1 mattock.
1 C. W. W. brand.	1 set gearing for 30 in. valve to la
1 chain and lever for wood hyd.	on side.
1 maul.	1 set gearing for 30 inch valve.
1 tool bag.	1 set gearing for 16 inch valve.
20 ft. of $\frac{\pi}{2}$ blk tin pipe, fun'l & dip'r.	6 12 inch wood plugs.
7 pr. steady washers for Man'g hyd.	6 10 inch wood plugs.
4 pr steady washers for Farnan hyd.	6 8 inch wood plugs.
2 brass Manning hydrants.	2 6 inch wood plugs.
8 copper Farran hydrants.	11 4 inch wood plugs,
4 balls of twine.	8 3 inch wood plugs,
2 set of chain for pipe laying.	2 lamp posts.
2 light chains.	11 pounders.
4 pipe for meter tests.	4 sprinkler boxes.
1 set of blks and rope for pipe laying.	1 screw for 8 inch valve.
1 set of 1 ton differential blocks.	10 lbs. of sheet lead.
1 folding derrick.	1 set of bits from ‡ to 1 ‡inch.
$1/1\frac{1}{2}$ running thread nipple, lock nut.	1 bit stock.
6 1 inch right and left couplings.	1 saw.
6 ‡ inch right and left couplings.	1 keyhole saw.
3 ladles.	1 jack-plane.
1 fire shovel and furnace with kettle	3 flat files.
for heating water.	1 ½ inch square file.

#### INVENTORY OF MISCELLANEOUS STOCK, TOOLS, FITTINGS, &c., IN STORE ROOM AT OFFICE—Continued.

37775	
1 } inch square file.	1 pr wire pliers.
1 claw hammer.	1 tape line, worn.
1 square.	1 counter sink.
1 drawing knife.	1 scratch awl.
2 wood chisels.	1 pair shears for trimming lamps.
1 oil stone.	1 lb. small copper wire.
3 screw drivers.	1 lb. small brass wire.
1 pr shears for cutting gaskets.	1 hatchet.
1 washer cutter.	9 brass top screws for Mani'g hyd.
1 pr callipers.	1 stock with dies from ½ to 2 inch.
1 13-16 top for hydrant screws.	2 pipe cutters.
1 ‡ top for hydrant screws.	2 pair of 3 inch pipe tongs.
28 lbs. rubber packing.	2 pr. extension tongs from 1 to 2 in.
1 (standard gauge) street coupling	1 pair 2 inch tongs.
complete.	2 pair tongs from ½ to 1 inch.
12 rubber gaskets for meter stuffing	1 pr. extension tongs \( \frac{1}{2} \) to \( \frac{2}{2} \).
boxes.	1 water pressure gauge with hyd-
20 lbs. of nails.	rant attachment.
11 sheets of emery paper.	1 set br's reduc'g coupl'gs 21 to 1 in.
1 1-16 nozzle.	1 2 in. R. &L. br's coup'lg met'r tests.
1 🔒 nozzle.	1 11
1 3-16 nozzle.	1 " " "
1 ‡ nozzle.	1 # " " "
1 5-16 nozzle.	1 2 inch right brass coupling.
1 a nozzle.	1 1½ inch right brass coupling.
1 7-16 nozzle.	1 1 inch right brass coupling.
1 ½ nozzle.	1 ‡ inch right brass coupling.
2 pr gas pliers.	1 piece 2 in. three ply hose 8 ft. long.

# INVENTORY OF MISCELLANEOUS STOCK, TOOLS, FITTINGS, &c., IN STORE ROOM AT

OFFICE—CONTINUED.

1 piece # hose.	5 lbs. rubber gaskets for hydrants.
1 2 inch tin pump.	25 lbs. of white lead.
1 1 inch brass pump.	3 small oil cans.
1 30 inch wrench.	3 2 inch meters, Worthington.
1 20 inch lever wrench.	3 14 inch meters, Worthington,
1 16 inch lever wrench.	1 1 inch meter, Worthington.
1 16 wrench.	2 1 inch meters, Worthington, new.
1 6 inch lever wrench.	2 # inch meters, Worthington.
3 3 inch wrenches.	1 large tank for testing meters.
1 4 inch wrench.	1 small tank for testing meters.
1 3 inch stop cock wrench.	3 barrels of cement.
1 hydrant claw wrench.	1 barrel of clay.
6 stop cock wrenches.	2 platform scales.
1 globe valve claw wrench.	3 sets clamps, 4 ft to 12 in, for taping.
1 air cock wrench.	2 ratchets.
2 ice bars.	3 drills.
1 pair grappling tongs.	2 § reamers.
2 pair rubber boots.	2 ‡ reamers.
5 yards of duck (enameled).	1 1 inch drill and reamer.
1 bench vise for pipe cutting.	1 2 inch drill and reamer.
1 swinging bench vise with movable	1 a drill for cement pipe.
fans for pipe cutting.	1 # drill for cement pipe.
2½ yards of canvas.	1 1 inch drill for cement pipe.
7 water pails.	1 brace.
1 5 gallon oil can.	1 monkey wrench.
1 2 gallon oil can.	1 tool bag.
	l

1 marking pot and brush.

1 funnel.

6 lanterns.

65 § ferules, brass.

16 § cement ferules, brass.

4 1 inch cement ferules, brass.

21 # brass ferules. | 52 stop cock numbers. 5 1 inch ferules. 1 shovel, 2 picks. 2 1 in. Worthingt'n met'r dials(new) 1 wheelbarrow. 3 14 1 brass coupling 2 to 24 inch. 4 barrel of salt. 1 ladle rest. INVENTORY OF MISCELLANEOUS ARTICLES AND MATERIALS AT OFFICE, DEC. 31, 1878. 5 desks. letter scale. 4 tables. 1 transit. 1 level. 1 safe 1 level rod. 1 rack & cupb'rd for books & blanks. 2 pickets. 2 office counters and fixtures. 2 100-ft chains. 2 office partitions. 1 abstract book. 1 marble front grate. 1 cupboard for papers and reports. 1 wash bowl with marble base and 4 waste paper baskets. spatter board. books, cash ledger transfer and 1 clock. permit books, maps, plans of machinery, boilers a buildings. 7 pictures and frames. 58 yards carpeting (half worn). 1 bureau for drawings. 94 yards linoleum (half worn). 1 large drawing table. 95 yards matting. 8 drawing boards. 1 base burner stove. 2 large chandeliers. 1 tee. 28 sheets of muslin-backed drawing-3 drop lights. paper 60x21 inches. 8 single light brackets. 2 yards vellum. 2 stools. 1 time roll book. 1 barometer. 1 stub book for maps. 4 large maps. 2 yds. 58 in, egg shell drawing paper. 2 service pipe record books. 6 yds. 58 in. egg shell muslin-backed

1 record book of pipe in the different 3 map books showing service con-

drawing paper.

nections.

2 books of pipe record & engine duty.

wards.

# INVENTORY OF TOOLS, MACHINERY, FURNITURE, &c., BELONGING TO PUMPING WORKS, DEC. 31, '78

- 2 writing desks with drawers.
- 1 chest of drawers,
- 5 tables.
- 2 drawing tables.
- 1 stand.
- 1 gouge.
- 1 pall drill wrench.
- 3 sets of stocks and dies.
- 4 pairs extra dies for stocks.
- 8 screw tops,
- 4 bits for brace.
- 1 drill press.
- 5 monkey wrenches.
- 2 key wrenches.
- 4 hammers.
- 3 copper hammers.
- 3 sledges.
- 2 anvils.
- 1 portable forge.
- 3 augurs.
- 6 coal wheelbarrows.
- 5 scuttles.
- 3 ladles.
- 1 grindstone.
- 1 axe.
- 1 hand axe.
- 2 dust pans.
- 6 stoves.
- 2 clocks.
- 3 iron vises and benches.

- 2 wood vises and benches.
- 1 small hand vise.
- 4 spittoons.
- 7 rustic chairs.
- 4 wood arm chairs.
- 11 wood chairs.
- 2 pair tongs, blacksmith.
- 3 record books.
- 1 account book.
- 145 ft. ‡ inch rubber hose.
- 4 rubber valves for Cornish engine air pumps.
- 30 ft. 4 inch rubber.
- 15 ‡ rubber back packing.
- 2 thermometers.
- 1 barometer.
- 3 minute glasses.
- 2 drop lights.
- 25 lbs. white lead.
- 1 clamp for raising Cornish valves.
- 1 screw with ratchet complete.
- 5 ladders.
- 4 step ladders.
- 2 large chests.
- 1 case knife.
- 1 clamp for piston rod.
- 28 open wrenches.
- 1 oil stone.
- 6 pails or buckets.
- 21 6 in, leather belt for centrifugal pump.

#### INVENTORY OF TOOLS, MACHINERY, &c., BELONG-ING TO PUMPING WORKS—Continued.

11.0 10 10 1111	William Committee and
2 new shovels.	1 hose cart for lawn hose.
20 gallons carbon oil.	1 sickle.
120 lbs. tallow.	1 scoop for eatch basins.
200 lbs. cotton waste.	1 lawn roller.
150 lbs. hemp packing.	2 coal cars.
1 40-gallon oil tank (tin).	1 carpenter's chisel.
1 5-gallon oil can (tin).	1 carpenter's gouge.
1 gallon tin measure.	6 calking tools.
2 quart tin measure.	4 squirt cans.
2 funnels.	7 lbs. can. pac'g, Worthg'tn pumps.
3 syringes.	6 rubber valves. " "
1 kettle & furnace for melt'g tallow.	3 seat valves, · · · ·
2 cans for carbon oil.	4 rubber valves, Cuyahoga pumps.
3 globe lanternrs.	6 1 inch unions.
1 drill post for pall drill.	1 flue cleaner.
8 hand lamps.	3 reamers.
3 valve wrenches.	2 pair dividers.
2 gas lighters.	15 old files.
3 stove shovels.	20 drills.
3 hair dust brushes.	1 24-inch square.
2 scrubbing brushes.	6 cold chisels.
1 ball marline.	3 cape chisels.
2 small screens.	1 spirit level.
2 dip pans.	1 bracket lamp.
1 hand saw.	8 packing hooks.
1 cross cut saw.	2 hose nozzles.
1 hack saw.	3 drippers for oil cans.
1 jack plane.	1 iron sheave.
1 beading plane.	1 set counter scales.

1 lawn mower.

1 platform scale, 600 lbs.

#### INVENTORY OF TOOLS, MACHINERY, &c. BELONG-ING TO PUMPING WORKS—Continued.

1 steel yard scale, 2,000 lbs.	22 fathoms 3-inch rope.
26 polished wrenches.	66 fathoms 6-inch rope.
1 3-inch bit, iron.	39 41
1 pyrometer.	15 " 4½ "
2 iron cocks.	28 . 31
4 brass globe valves.	26 ' ' 31 ' '
6 brass valve stems (Worth, pumps).	13 " 3½ " good junk.
7 files.	: 11
½ box crayons (white).	10 " 3 "
3 pieces leather hose (bad order).	19 3
1 brand C. W. W.	26 " 3 "
1 double lever scoop.	9 " 21 "
1 grapuel tongs.	1 portable engine and boiler.
1 blacksmith bellows.	1 centrifugal pump.
10 new grate bars.	1 trestle for cyl. heads.
1 crab winch.	1 9-inch pipe 5 ft. long.
1 dip scoop.	1 9-inch pipe 6 ft. long.
3,000 old fire brick.	16 pieces of odd pipe.
100 ft. # iron chain.	8 pieces pine timber, odd lengths.
1 blank flange for stand pipe.	16 ft. 3. of 21 gas pipe
1 9-inch pipe 7 ft. 5 in. long.	14 ft. of 2½ "
2 8-inch blocks purchase.	17 ft. of 3-inch "
2 6-inch " "	10 ft. of 21-inch "
2 17-inch " "	7 ft. 6 in. 2½-in. "
1 14-inch '' ''	8 ft. of 3-inch "
1 9-inch	2 ft. 6 in. 2-in. "
1 7-inch	34 of 3-ineh "
5 13-inch " "	12 of 3-inch "
1 10-inch " "	9 ft. 3½ "
1 pr. iron " "	11 ft. 6in. of 4-in "

#### INVENTORY OF TOOLS, MACHINERY, &c., BELONG-ING TO PUMPING WORKS—CONTINUED.

1 new main valve Cornish pump.

9 slates.

2 pair small gas tongs,

37 sheets of emery paper.

9 barrels fire clay.

2 barrels water lime.

1 barrel white lime.

200 lbs. pig lead.

4 11 bolts 10 ft. long.

1 knife and frame.

5 lbs. sheet rubber packing.

1 set ‡ inch steel figures.

2 screw drivers.

11 6-in. I beams 26 ft. 3 in. long.

12 9-inch stop valves.

2 7-inch safety valves.

6 Cornish boil'rs with fronts, valves and fittings complete.

2 damper screws and stands.

· 2 extra dampers.

75 tons slack coal estimated.

8 tons scrap iron.

1 small looking glass.

1 hat rack.

2 high temperature thermometers.

6,000 lbs. scrap iron.

20 lbs scrap copper.

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#### To the Honorable City Council

#### SEVENTH ANNUAL REPORT

OF THE

# BOARD OF POLICE COMMISSIONERS

OF THE

CITY OF CLEVELAND, OHIO,

COMPRISING

#### POLICE AND HEALTH DEPARTMENTS,

FOR THE

YEAR ENDING DECEMBER 31st, 1878.

CLEVELAND.: WISEMAN & HARVEY, PRINTERS, 1879,

• •

#### ORGANIZATION.

W. G. ROSE,

Mayor and Ex-officio President.

#### Commissioners:

JOHN M. STERLING, JR., G. W. HOWE,

LOUIS HAUSHEER, J. R. SPRANKLE.

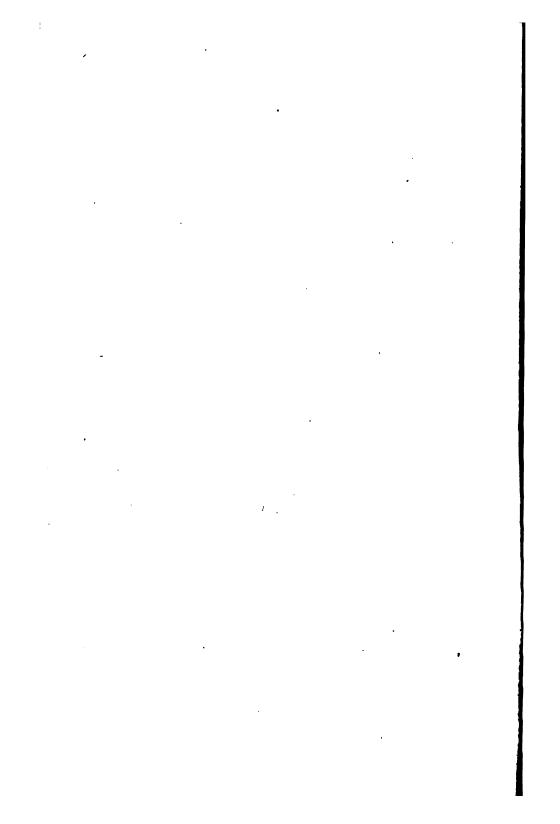
G. G. MINOR, Secretary.

JACOB W. SCHMITT, Superintendent.

JAS. McMAHON, Captain. H. HOEHN, Captain. H. HOLZWORTH, Captain Detectives.

S. T. EVERETT, Treasurer.

G. B. CASE, Health Officer.



### Extraot from Regular Meeting of the Board, held February, 1879.

- "The Secretary and Assistant Secretary submitted copies of Annual Reports of Police and Health Departments.
- "Ordered, That copies be printed, two hundred copies to be bound together, and one hundred and seventy-five copies of each separately."

By order of the Board,
GEO. G. MINOR,
Secretary.

. · .

#### SEVENTH ANNUAL REPORT

OF THE

#### Board of Police Commissioners

OF THE

#### CITY OF CLEVELAND.

Office Board Police Commissioners, CLEVELAND, January 1, 1879.

To the Honorable City Council of Cleveland, Ohio:

GENTLEMEN—In compliance with law, we herewith submit a report of the work of the Board and Force for the year ending December 31, 1878, embracing all matters connected with Police and Health business, for your information and consideration.

#### THE BOARD.

Since the last Report there has been one change in the personnel of the Board, the time of Commissioner Cutler having expired, the citizens at the last Spring election elected J. R. Sprankle to fill the place formerly occupied by Commissioner Cutler.

#### The Board at present is made $\upsilon p$ by the following citizens:

			T	erm Expires,
W. G. Rose, Mayor and President,	-	-	-	1879.
G. W. Howr,	-	-	-	1879.
JOHN M. STERLING, JR.,	-	-	-	1880.
Louis Hausheer,	-	-	-	1881.
J. R. SPRANKLE,	-	-	-	1882.

GEO. G. MINOR, SECRETARY,

#### INVENTORY OF PUBLIC PROPERTY

#### BELONGING TO

#### THE POLICE DEPARTMENT OF THE CITY OF CLEVELAND.

0.	Articles.				
00	Rounds Ammunition	\$ 200 00			
1	Book Arm Rest.	<b>5 2.</b> 11. 01.			
2	Beds and Bedding				
8 30	Blackboards	8 00			
21 21	Badges, gilt				
<b>13</b>	Baskets, paper	2 45			
4	Baskets, other	1 25			
40	Belts				
14	Books	<b>6</b> 0 00			
4 30	Boxes, letter	1 50			
17	Brushes, other.	4 00 2 40			
<del>?:</del>	Brooms.	2 40 14 50			
77 11	Brooms, wisp	1 00			
37 30	Buckets, celi				
	Buckets, other	4 10			
1	Buggy	150 00			
77	Buttons, gilt				
10	Buttons, white	<b>80.00</b>			
ıŽ	Boxes Cartridges, Pistol	50 00 20 00			
ĩ	Museum Case	150 00			
ĩ	Book Case	90 00			
ĺ	Box Case.	10 00			
1	Book Rack.	8 00			
3	Carpets, Brussels	20 00			
•	Carpets, other	40 00			
7	City Directories.	34 00 28 00			
ų.	Chairs, common	90 00			
Đ.	Chairs, cane and splint	105 00			
13	Chimneys, Lamp	75			
9	Clocks	45 00			
33	Coal, Hard, tons.				
21 16	Coal, Soft, tons	10 00			
2	Coal Stoves	240 00			
5	Cupboards.	22 00			
7	Cups, mucilage	1 50			
31	Cups, tin.	5 00			
15	Pivotal Chairs	27 00			
14 1	Chairs	185 00 40 00			
5	Desks	40 00 475 00			
8	Drop Lights	34 00			
3	Dust Pans	50			
ŧ	Envelopes, large, boxes	70			
•	Envelopes, small, boxes	50			
6	Rrasers, ink	1 50			
6 7	Equipments, sets	100 00			
4	Floor Mate	15 00			

#### CITY DOCUMENTS.

	ARTICLES.	VALUI
 ~ E	Neo Alawa Instruments	
7 F 9 F	ire Aların Instruments	\$ 200
r L	I ammana	60
D 11:	Inna fant	3 46
Ĥ	Inran	150
î	lorse	20
Ť	nk Stands	19
Ĩ,	nk, bottles, black	28
Ĩ	nk, bottles, red	
Ĺ	adders, step anterns otter Presses	20
L	anterns	20
L	etter Presses	30
L	oungesinoleum.	20
Ĺ	inoleum,	50
Ļ	inoleum	75
	18.DS.	25
N.	atting latches, boxes	5
.71	Burners DOACS	•
M	here	16
Ň	Incidam hattles	4
N.	Indesta	250
ő	il Cloth, lots.	8
ř	latches, boxes lirrors. lops. lucliage, bottles luskets. il Cloth, lots. aper, Foolscap, reams aper, Letter, reams aper, Legal Cap aper, Blotting Sheets, small. aper, Blotting Sheets, long.	5
P	aper, Letter, reams	~
P	aper, Legal Cap	
P	aper, Blotting Sheets, small	
P	aper, Blotting Sheets, long	
P	aper Cutters. aper Files	
P	aper Files	1
P	aper Weights	2
P	aper Weights	2
P	ens, steel	_
P P	ennolders.	1
D	enholders. en Racks encils, lead. olice Clubs	1
D.	clien Chrha	1
ĵ,	olice Numbers	
P	olice Numbers olice Regulations	
P	olice Wreaths	
R	olice Wreaths efrigerator	2
R	ifies and Equipments ogues' Pictures	-
R	ogues' Pictures	:133
R	eal Estate	130,000
150	ifes ;;;: :;::	400
- 50	eythe and Snath	1
- 51	novels ups, hard, boxes ups, soft, barrels.	4
30	oaps, nard, boxes	2
50	aps, soft, carries, pittoons.  songes. ands. ationery.  sols.	.6
3	ongo	<b>≌</b> 1
Si	anda	15
81	ationery	1.0
St	ools	2
T	ables	290
T	RES.	
	elegraph Instruments	157
T	owels	10
T	owel Racks	10
To To		
To To To	wine, balls	
To To To W	wine, balls	26
TO TO TO W W	wine, balls 'ater Coolers 'ater Pails	26
TO TO TO W W W	wine, balls. ater Coolers (ater Pails	26 1 57
TO TO W W W W	wine, balls. ater Colers ater Palls ardrobes. indow Curtains	26 1 57 45
TO TO W W W W	wine, balls. ater Coolers ater Palls (ardrobes. indow Curtains	26 1 57 45 1
To To W W W W	wine, balls. ater Colers ater Palls ardrobes. indow Curtains	26 1 57 45

# THE FORCE.

Remarks.	
First Entry Into Last Service. Appointment.	May 1, 1896 May 17, 1876  May 1, 1896 May 17, 1876  May 1, 1896 May 17, 1876  Dec. 24, 1870 May 13, 1876  June 23, 1860 May 1, 1876  May 1, 1896 May 1, 1876  July 8, 1875  Sept. 7, 1871  May 1, 1898 May 1, 1876  Sept. 7, 1871  May 1, 1898 May 1, 1876  Nov. 3, 1871  May 1, 1898 May 1, 1876  Sept. 7, 1871  May 8, 1875  May 1, 1898 May 1, 1876  Sept. 7, 1871  May 1, 1898 May 1, 1876  May 1, 1898 May 1, 1876  Sept. 7, 1871  May 8, 1875  May 1, 1888 May 1, 1876  May 1, 1888 May 1, 1878
Nativity.	Germany  Germany Germany Germany Germany Freland Germany L'nited States Germany Canada Germany Canada Germany Canada Germany Canada Germany Canada Cormany Cormany Cormany Cormany Cormany Cormany Cormany Cormany Cormany
Name.	J. W. Schmitt.  Henry Hoehn J. Mass McMahon J. Mass McMahon M. F. Madigan M. F. Madigan M. F. Meltrworth M. F. Meltry M. M. Simmonds Philip Anthony E. E. Morse Philip Anthony E. E. Morse John Schriber Good: Geoof: Geoof
Rank.	Superintendent (Sapian  " Detectives. 3d 3d 4th 5th 6th 7th 8th 10th 10th Detective. " Asserted to the second to t

THE FORCE—Continued.

Remarks.	April 12, 1876  26, 1876  26, 1876  April 12, 1876  April 14, 1877  April 12, 1876  April 12, 1876  Detailed Specifice.
Last Appointment.	April 12, 1876  34, 1877  12, 1876  35, 1876  Sopt. 16, 1877  April 12, 1877  April 12, 1877  April 12, 1876
First Entry Into Service.	April 2, 1876  April 25, 1876  April 26, 1877  May 6, 1877  Nov. 7, 1878  May 88, 1876  June 27, 1877  May 88, 1877  Jun. 21, 1877  Jun. 21, 1877  May 14, 1877  Jun. 2, 1877  May 1, 1887
Nativity.	United States Freland, United States Freland Freland Germany Freland Freland Freland Freland
Name.	E. K. Hutchinson Theo. Keegan. John Barrow M. J. Haley E. F. Schultz E. F. Schultz E. J. Rink S. L. Miller Chas. Schroder Chas. Schroder Chas. Schroder Chas. Schroder Chas. Santh M. Anthony M. J. O'Malley C. W. Broadwell M. Emplish M. Emplish M. Anthony M. J. O'Malley C. W. Broadwell M. Emplish M. Broadwell M. Manzelman M. Ostermover B. Rosenfedder B. Rosenfedder B. Rosenfedder B. Rosenfedder B. Rosenfedder C. C. Thomas John Dunn Philip Haggerty John J. Moltan Philip Haggerty Peter Wilson
Rank.	Sergeant  Supt's Clerk Tel. Operator  Doorman Janitor  Patrolman, 1  4  6  11  12  13  14  15  16  16  18  18  18  18  18  18  18  18

THE FORCE-Continued.

Remarks.	Detailed Court Duties.  Detailed Janitor, 2d Precinct.  Detailed Union Depot.
Ren	
Last Appointment.	April 12, 1876 April 12, 1876 April 12, 1876 April 12, 1877 April 12, 1876 April 12, 1876 April 12, 1876 April 12, 1876 April 13, 1876 April 13, 1876 April 13, 1876 April 12, 1876
First Entry Into Service.	May 1, 1866  May 1, 1866  April 20, 1873  April 20, 1873  Jan. 20, 1873  May 1, 1875  April 20, 1873  May 1, 1874  Juny 19, 1874  Juny 19, 1874  April 20, 1875  Nov. 2, 1876  May 1, 1876
Nativity.	Ireland Gernany United States Bohemia Nova Social United States Gernany United States England United States Ireland United States Ireland United States Gernany Ireland United States Ireland United States Ireland United States Gernany Ireland United States Ireland United States Ireland United States England Ireland Ir
Name.	Joseph Krenzie Joseph Krenzie Jacoph Hummol Jacob Hummol W. Havelichek A. D. Hidreth William Vogel A. J. Domino. Jacob Boyer Hethard Dunn A. R. Burnesy. Thomas Hoben M. F. Woodl E. R. French S. D. Mell John P. Norton Geo. W. Willis Geo. W. Willis D. A. Writenour Jacob Ganz Jacob Reliasy R. Fehinson H. Fehinson Milliam Sorgee J. W. Johnson Milliam Sorgee J. W. Johnson Milliam Sorgee J. W. Johnson J. W. Johnston
Rank.	Pot 

THE FORCE—Continued.

Remarks.	Detailed Court Officer
Appointment.	April 25, 1877 April 25, 1877 April 26, 1876 Abril 27, 1876 Abril 28, 1877 April 28, 1877 April 29, 1877
First Entry Into Service.	April 20, 1872  Sept. 4, 1877  Jun. 9, 1873  May, 8, 1878  Nov. 29, 1878  Nov. 13, 1877  Nov. 13, 1877  Nov. 13, 1877  April 19, 1878  April 19, 1878  April 19, 1878  May, 8, 1878  April 19, 1877  April 19, 1877  April 19, 1877  April 19, 1877  May, 8, 1878  April 19, 1877  April 19, 1877  May, 8, 1871  April 19, 1877
Nativity.	Culted States Germany United States Germany Tulted States Germany Treland Germany United States Feland Germany United States Treland
Name.	W. S. Lipps.  W. M. Weygaudt. J. Hides Philip Selicon E. A. Byntton E. A. Byntton E. A. Byntton John Spraukel W. J. Chlorist Cronge Gand. Trassell Trasser Brown. John Burns P. J. Luchts. J. C. Berger Brown. J. W. Bradley. J. W. Warner. J. C. Denzer. J. W. Warner. J. C. Denzer. J. W. Warner. J. W. Warner. J. W. Warner. J. W. Markourek. F. R. Eustage. J. W. Varner. J. W. Marcon Reese. J. McCormick. F. R. Eustage. J. McCormick. J. Geo. W. Floyd. Geo. W. Floyd. Geo. W. Hoyd. F. H. Humphrey. J.
Rank.	Patrollmun munging

THE FORCE—Continued.

Romarks.	Detailed Janitor 4th Precinct.
Last Appointment.	871 April 19, 1876 872 873 874 April 2, 1876 875 April 2, 1876 877 April 2, 1876 877 April 2, 1876 877 April 2, 1876 877 April 3, 1877
Mrst Entry Into Service.	Pept. 1. June 10, 1873.  Pept. 2, 1873.  Nov. 2, 18
Nativity.	Tolted States Sept. Ireland Mates Sept. Switzschand May United States Feb. Should States Nov. Germany Nov. Ireland States Feb. Ireland States Feb. Ireland States Feb. Ireland April Ireland States Jan. Ireland Feb. I'nited States Jan. I'nited States Jan. I'nited States Jan. I'nited States Jan. I'nited States Feb. I'nited States Jan. I'nited States Jan. I'nited States Feb.
Name.	M. W. Murphey. [ Inited States Patrick Kennedy. [ Feland. A. Moyfillan A. Moyfillan B. Switzachad Henry Selbel. [ Singland. John P. Bramley. [ England. F. J. Lambert. [ F. J. Lambert. [ F. J. Lambert. [ F. J. Lambert. ] S. B. Close. [ Foreinnit. ] S. B. Close. [ Foreinnit. ] J. H. Mangan. [ Freihand. ] Chas. Dangeler. [ J. H. Mangan. ] J. H. Mangan. [ J. H. Mangan. ] J. H. Sherman. [ J. H. Mangan. ] J. M. Chas. Miller. [ J. H. Mangan. ] J. M. Chas. Miller. [ J. H. Mangan. ] J. M. K. Sherman. [ J. H. Mangan. ] J. M. K. Sherman. [ J. H. Mangan. ] J. M. K. Sherman. [ J. H. Mangan. ] J. M. K. Shellip Heege. [ J. H. Mangan. ] J. M. H. Stoffer. [ J. H. Mangan. ] J. M. H. Stoffer. [ J. H. Mangan. ] J. O'Laughhin. [ Freland. ] W. M. H. Stoffer. [ Inited States. ] J. O'Laughhin. [ Freland. ] Treland. [ Inited States. ] J. O'Laughhin. [ Freland. ] Treland. [ Inited States. ] The Mangan. [ Inited States. ]
Rank.	Patrolman  1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1

#### . NATIVITY.

COUNTRY.	Dec. 31, 1877.	Dec. 31, 1878.	Increase.	Decrease.
Bohemia	<b>3</b> ·	4	1	
Canada	2	2		
England	9	9		
Germany	43	39		4
Heligoland.	1	1		
Ireland	32	81		1
Isle of Man	1	1		
Novo Scotia.	1	1		
Scotland	1	0		1
Switzerland	1	1		
United States	68	78	<b>5</b>	· · · · · · · · · · · · · · · · · · ·
Total	162	162	6	6

#### PAY OF THE FORCE

AND AMOUNT ENTITLED TO BE DRAWN BY THE ENTIRE POLICE AND HEALTH DEPARTMENTS.

No. OFFICERS.	Yearly Compensa- tion.	Total.	Grand Total.
POLICE.	1		
1 Superintendent.	\$2,000 00	\$2,000 00	
1 Secretary	1,500 00	1,500 00	
3 ('uptains	1,296 00	3,888 00	
10 Lieutenants	950 00	9,500 00	
7 Detectives	950 00	6,650 00	
1 Detective, Special	756 00	756 00	
8 Sergeants.	875 00	7,000 00	
1 Superintendent's Clerk	900 00	900 00	
2 Telegraph Operators	480 00	980 00	
2 Doormen	600 00:	1,200 00	
2 Janitors	700 00	1,400 00	
1 Fireman	500 00	500 00	
123 Patrolmen	756 00	92,988 00	
SANITARY.			
1. Health Officer	1,200 00	1,200 00	
l'Secretary	1,000 00	1,000 00	
1 Sergeant	720 00	720 00	
4 District Physicians	600 00	2,400 00	
1 District Physician	400 00	400 00	
1 District Physician	<b>480</b> 00	460 00	
6 Sanitary Policemen	660 00	3,960 00	
1 Steward Small Pox Hospital ) 1 Matron Small Pox Hospital (	550 00	550 00	\$139,982

# DISTRIBUTION OF THE FORCE.

ſ	Тоға	55 <b>3%</b> 8555	<u> 22</u>
	Воретив.	0	*
	Heligoland.		<b>-</b>
	лоув воойв.	··	-
	Isle of Man.	- <del>-</del>	-
TY.	Switzerland.		¦ <del>-</del>
NATIVITY	.kbana/)		34
W	England.		oc
	Ireland.		8
	Germany.	4074,005-654,00	   <del> </del>
	'	∞£∞581-44	   <u> </u>
- d	United States.	811-83 CO FF	   <u>                                  </u>
Socia ond'r	Single.	_×4∓2‱5c	丟
82 :	Married.	25236222	<u>.</u>
	LatoT.		168 188
3	Firemen.		2)
NAT		21	23
E C	Doormen		25
SUBORDINATES	.eroturado dqaraələT		
<b>2.</b>	Superintendent's ('Jerk		_
!	Patrolmen.	≐ಪ೪೫∞∞∞	2
نع	Sergeants.		<b>~</b>
ORC	Detectives.	<b>5</b> %	20
REGULAR FORCE	Lieutenants.	अध्यक्ष ——	2
gar.	.snlstqr)		8
3	Secretaries.	-	-
	Superintendents.	-	_
	WHERE STATIONED.	Headquarters First Predict Second Precinct Third Precinct Fourth Precinct Fourth Precinct Seventh Precinct Seventh Precinct	Total

THE FOLLOWING APPOINTMENTS WERE MADE DURING THE YEAR:

Social Appointed.	Married Patrolman.	Married Patrolman.	Married Patrolman.	Married Patrolman.	Married Patrolman,	Married Patrohnan.	Married Patrolman.	Married Doorman.	Married Patrolman.	Married Patrolman.	Single Patrolman.	Single Doorman.	Married Patrolman.
Former Occupation.	40 United States Finisher Married Patrolman.	24 United States Salesman	22 United States Railroad ConductorMarried Patrolinan.	United States Moulder Married Patrolman.	United States Harness Maker Married Patrolman,		Tnited States Salesman	42 Uhited States Sail Maker	27 United States Blacksmith	:		United States Silver Plater Single Doorman.	24 United States Painter Married Patrolman.
Age. Nativity.	United States	United States	United States			33 Bohemia Carpenter	United States	Thited States	United States	24 United States Hair Dresser	United States Teamster	United States	United States
Age	\$	ক	ಚ	<b>66</b>	88	æ	βī	<b>3</b>	7.	¥	85	র	\$
Name.	January 8 E. A. Boynton	January 18 A. R. Sidley	January 21, J. W. Varner	J. Wall	March 6 D. W. McCready	May 16 F. Kulas	G. D. Scott	November 7 S. L. Miller	November 27 J. C. Denzer	November 29 A. A. Lawrence, Jr	November 27 C. McMasters	November 27 C. Schroeder	December 4 J. Boyer
Date.	nuary 3.	nuary 18	ınusıy 21	February 8	arch 6	ау 16	Neptember 21 G. D. Scott	ovember 7	ovember 37	ovember 29	ovember 27	ovember 27	cember 4

MEMBERS OF THE FORCE TRIED DURING THE YEAR 1878.

Finding of Board.	Not Guilty.  \$2.00 and Reprimanded.  Resigned under Charges.  Robrimanded.  Roprimanded.  \$10.00 and Reprimanded.  \$10.00 and Reprimanded.  \$25.00 and Reprimanded.  Reprimanded.  Reprimanded.  Resigned under Charges.  Reprimanded.  Resigned under Charges.  Reprimanded.  Resigned under Charges.  Reprimanded.
('harge.	Violation of Rules Violation of Rules Violation of Rules Seeping on Duty Neglect of Duty Violation of Rules Faller, etc Fordury, etc Violation of Rules Falles Statements Falles Statements Violation of Rules Leaving Beat Licaxing Beat Linconnection Descriting Beat Intoxication Descriting Beat Connection Descriting Beat Connection Descriting Beat Descriting Beat Descriting Beat Descriting Beat Descriting Beat Descriting Beat Descriting Con Duty Violation of Rules Descriting Beat Descriting Leaving Descri
Випк.	Patrolman Lieutenant. Patrolman Doorman Patrolman
Name.	A. Gebres.  E. E. Morse. E. E. Morse. E. E. Morse. E. E. Morse. I. L. Co. C. Frederfels. I. Cordes H. Cordes William Drew E. Shipman H. Cordes W. William Drew E. Shipman H. Shidiey F. Carles H. Sideringer H. Ganns H. Ganns H. Gorge Frifield H. Ganns H. Cordes H. Cor
Date—1878.	January 2, January 4, January 16, January 18, January 18, January 18, January 18, January 18, February 16, February 16, February 16, February 16, February 16, April 12, April 1

### CHANGES IN THE DEPARTMENT.

	Superintendent.	Secretary	Captairs.	L'icutenants.	Sergeants.	Detectives.	Patrolmen.	Superintendent's Clerk.	Doormen.	Telegraph Operators.	Janitors.	Firemen.	Total.
Remaining last Report	1	1	3	10	8	8	123	1	2	2	2	1	162
Appointed during the year							11		2				18
Died							2						2
Dismissed from the Force.							9						9
Promoted to							1						1
Promoted from									.1		·		1
Remaining	1	1	3	10	8	-8	123	1	2	2	2	1	162

## HEADQUARTERS, PRECINCTS, DISTRIBUTION OF MEN AND STATION HOUSES.

The boundaries of Precincts remain the same as at last Annual Report, except the Third and Seventh, which have been changed by taking from the Third the territory contained in the following: West on Garden street to Hayward street; north on Hayward to Euclid avenue; east on Euclid avenue to Case avenue, and north to the Lake shore, all of which has been added to the Seventh Precinct.

#### HEADQUARTERS

At City Hall, Rooms Nos. 15 and 16. The Board and Secretary occupy No. 15, the Superintendent and one Telegraph Operator No. 16, and Detectives No. 14; No. 15, second floor, is used for store room.

#### DISTRIBUTION OF FORCE.

Headquarters-One Superintendent, one Captain, one	
Secretary, six Detectives, one Operator	10
First Precinct-One Captain, two Lieutenants, one Ser-	
geant, forty-one Patrolmen, one Superinten-	
dent's Clerk, one Operator, two Doormen, one	
Janitor, one Fireman	51
Second Precinct-Two Lieutenants, one Sergeant, thir-	
teen Patrolmen	16
Third Precinct—Two Lieutenants, one Sergeant, twenty	
Patrolmen, one Janitor	2-
Fourth Precinct-One Captain, two Lieutenants, two	
Detectives, one Sergeant, twenty-five Patrol-	
men	31

POLICE COMMISSIONERS' REPORT.	337
Fifth Precinct—Two Sergeants, eight Patrolmen	10
Seventh Precinct-One Lieutenant, one Sergeant, eight	
Patrolmen	10
Eighth Precinct—One Lieutenant, one Sergeant, eight	
Patrolmen	10
Total	<del></del> 162
STATION HOUSES.	

#### The Station Houses are located as follows:

First Precinct—On Champlain street, west of Seneca. This Station contains the offices of the Police Clerk, Captain of the Eastern District, and the Police Court Room.

Second Precinct—Station House is situated on the corner of Nevada and Oregon streets.

Third and Sixth Precincts—On Forest street, between Brownell and Croton.

Fourth Precinct—On Detroit street, near Pearl. Is the headquarters of the Western District (Fourth and Fifth Precincts), and contains the office of Captain McMahon.

Fifth Precinct—On Barber avenue, east of Columbus street.

Seventh Precinct—Room at No. 1220 Euclid avenue, near Willson avenue.

Eighth Precinct—Station is located on Wales street, Eighteenth Ward.

### HEALTH STATEMENT.

	Days			Aven	-		
MONTH.	Requir'd to be Served.	Days Served.	Sickness.	Other Causes.	Total.		gth
January	4,984	4.917	61	6	67	16	61
February	4,507	4,443	45	19	64	10	60
March	4,984	4,933	48	3	51		61
April	4,828	4,755	22	51	73		61
May	4,990	4,917	24	4Ω	73		61
June	4,808	4,707	29	72	101		60
Jul <b>y</b>	4,960	4,819	31	110	141		60
August	4,960	4,786	88	86	174		80
September	4,800	4,632	86	82	168		60
October	4,960	4,834	81	45	126		60
November	4,824	4,726	63 83	35 25	98 108		61 61
Total	58,599	57,352	661	583	1,244		
Average Yearly Stren	gth of Fo	rce				1 <b>6</b> 0.50 n	nen
· · · · Atte	ndancee	ach man.				357.36 d	av
			n			7.64 d	_
Total Time Lost from					· }	1,244 d	ayy
Average Daily Loss of	f Time for	Year				8.40 п	ner
Average Loss from Si	ekness			181 r	nen )		
							net

#### STATION HOUSES.

The Station Houses now in use are in as good condition as could be expected. Some of them should be improved and made more comfortable for the Force and prisoners. condition of the Police Court Fund, from which all repairs and cost of building station houses is paid, has been such as to prevent any large outlay; and though the Board have been compelled to incur some expense upon the First and Fifth Precincts, the amounts expended have been kept within the means at the disposal of the Board. The building in the Eighth Precinct, although nearly new, having been in use but five years, is in bad condition, consequent upon the faulty construction of the foundations, which were insufficient, and hence settled so as to derange levels and cause much inconvenience in the use of cages. This has been remedied with trifling expense, but before long repairs must be made to make this structure serviceable.

In accordance with suggestions made in last Annual Report the Station for Seventh Precinct has been changed from Hovey's block, near Doan street, in 17th Ward, to a room at No. 1220 Euclid Avenue, near Willson. Ample accommodations have been provided for the business of the Precinct, and six iron cages built and placed in the Station. The Station is a model for neatnesss and convenience, located in premises leased at a rental of \$25 per month.

In this connection it may be proper to call attention to the fact that several of the Station Houses are still provided with stone cells, when every consideration of humanity and a regard for the health and comfort of the Force and prisoners demand that the iron cage should be substituted as soon as the expense can be provided for.

• •

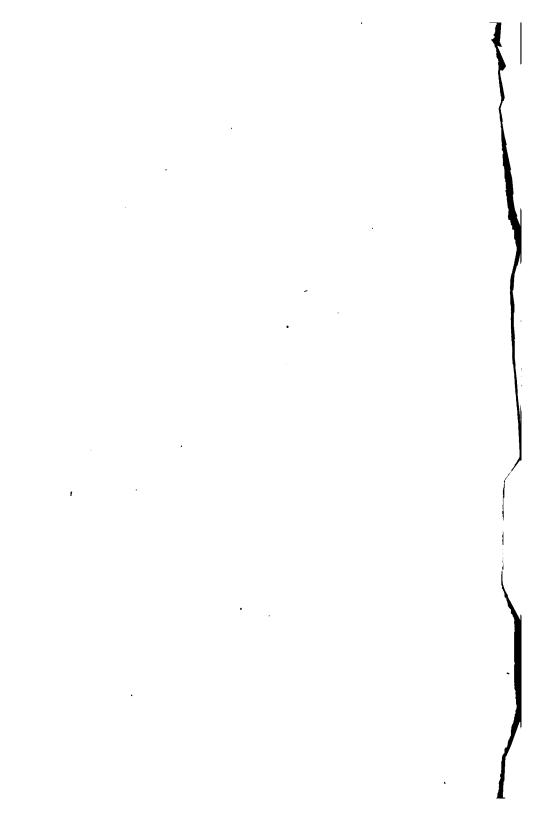
## ANNUAL REPORT

OF



FOR THE

YEAR ENDING DECEMBER 31ST, 1878.



To the Honorable Board of Police Commissioners:

GENTLEMEN:—I hereby submit to your Honorable Board of Police Commissioners the Annual Report of the Detective Department for the year ending December 31, 1878.

Respectfully submitted,

J. W. SCHMITT,
Supt. of Police.

• •

## REPORT OF THE DETECTIVE SERVICE.

#### CLEVELAND, O, January 1, 1879.

### J. W. Schmitt, Sup't of Police:

SIR:—The following is a report of the labor performed by the Detective Department during the year ending December 31, 1878.

THE FOLLOWING ARRESTS WERE MADE DURING THE YEAR:

offences.	No.	offences.	No.
Assault and battery Abusing officer Adultery Attempt at murder Assaulting officer Assaulting officer Assaulting officer Burglary Burglary Common begrar Crueity to animals Cutting with intent to wound Careless driving Counterfeiting Capias Carrying concealed weapons Drunk Disturbance Distorderly conduct Destroying property Embezziement Forgery Fungtive from justice	1 1 1 2 2 1 19 7 10 17	Insane  Keeping disorderly house  Keeping douse of ill fame  Keeping gambling house  Libel  Murder.  Obtaining goods by false pretenses  Obtaining money " Obstructing officer  Petit larceny  Receiving stolen property  Rape  Robbery  Suspicion  Shooting with intent to kill  Seduction  Stealing dead body  Vagrancy  Violating R. R. ordinance  Violating property ordinance	11 11 11 13 39 156 46 32 64 48 33
Grand larceny Gambling Horse stealing House breaking Incorrigible conduct Indecent exposure of person	25 4 2 2 4	Violating exhibition ordinance	302

Much valuable assistance has been rendered to officers from abroad in their search after criminals, and thirty-four parties arrested here on felonious charges have been remanded to such officers, as follows:

	No.		No.
Adrian, Mich Akron, O. Bay City, Mich Chicago, Ill Cincinnati, O. Cuyahoga Co Detroit, Mich Dunkirk, N. Y. Erie, Pa	1 2 1 6 1 2 2 1	Norwalk, O. Oli City, Pa. Pittsbugh, Pa. Painesville, O. Perrysburgh, O. Racine U. S. Authorities. Willoughby, O.	1 1 2 1 1 3
Elyria, O	1 1 2 1	Total	34

#### STOLEN PROPERTY RECOVERED.

MONTH.	Amount.	Month.	Amount.
-		<del></del>	
January. February March April May June July	1,960 20 354 88 1,097 23 3,107 40	September October November December.	2,253 80 2,425 22 580 17 192 40

#### COMMUNICATIONS FROM ABROAD.

During the year the following communications were received:

Letters, .															-
Postal Card	ts,	•	•	•	•	٠	•	٠	٠	٠	•	٠	•	•	412
Circulars,															
Telegraph	disp	atc	he	٠,											200

#### REPORT OF EMIGRANT OFFICER.

Emigrant Detective Schroeder reports as follows:

9,953 emigrants arrived during the year. 7,930 came via the L. S. & M. S. R'y; 1,292 came via the C. & P. R'y; 731 came via the A. & G. W. R'y.

638 emigrants settled in this city, of the following nationalities: Germans, 202; Bohemians, 148; Irish, 130; English, 97; Hungarians, 44; Italians, 10; Hollanders, 7.

The following is a tabular report showing the number of emigrants passed through the city, roads by which they came, number settled in the city, and their nationality, for the year ending December 31, 1878:

		RAIL	ROADS.	
Month.	L. S. & M. S.	C. & P.	A. & G. W.	Totals.
January	207	40	35	282
February	280	57	45	383
March	427	164	52	643
April	841	156	26	1,023
Мау	1,308	149	104	1,561
June	1,122	131	78	1,331
July	796	124	58	978
August	582	130	81	743
September	517	116	56	689
October	1,180	104	94	1,378
November	458	65	50	578
December	462	56	52	870
Total	7,930	1,292	781	9,958

#### SETTLED IN THE CITY,

Month.	Germans.	Bohemfans.	Irish.	English.	Hungarlans.	Italians.	Hollunders.	Total.
January	9	6		5		1	••••	20
February	11	5	9	6		3		34
March	21	12	5	7		••••		45
April	20	11	9	28				63
May	40	26	15	8	8			97
June	10	13	29	7	6		7	80
July	16	26	12	- 6	12			72
August	14	10	13	5	2			44
September	13	7	10	8	6			44
October	16	. 17	19	6	7			65
November	14	10	6	7	: a			. 40
December	10	. 5	. 3	4		7		29
Total	202	148	130	97	44	10	7	698

Respectfully Submitted,

H. M. HOLZWORTH,

Captain of Detectives.

The following Statistical Tables show the result of the labors of the Force for the year ending December 31st, 1878, in detail.

• ; • • . •

## SALOONS, HOUSES OF ILL FAME, ETC.

			PRE	('IN(	TS.						
	First.	Second.	I hird and Sixth.	Fourth.	Finh.	Seventh.	Elghib.	Total -1878.	Total-1877.	Increase.	Decrease.
Saloons Houses of Ill Fame Inmates of same Assignation Houses Prostitutes in Rooms Gambling Houses Common Gamblers Thieves and Suspicious Pers'ns Resorts for Thieves	313 60 111 50 12 17 30 20	131 1 1 14 1 79	238 11 21 12 12 12 24		157	44 1 2 	54 	1,842 81 135 14 84 17 19 146 26	1,218 56 67 14 62 10 17 152 13	124 25 68 22 13	

#### OFFENSES.

#### STATE.

	MALES.	FEMALES.	TOTAL.
Abusing Officer	*		4
Adultery	7		3
Assault and Battery	267	35	- 200
Threatening	201	•)()	·N.C.
" with Intent to Kill	3		
" Rape	<b>~</b>		•
" " Rob	ĩ		ï
" " " Wound	2		
Assaulting Officer	23	1	24
Attempt to Marder	ĩ		~i
Body Snatching	4		4
Breaking into Railroad Car	2		2
Burglary	40		40
" and Larceny	15		15
Buying and Receiving Stolen Property	15		15
Carrying Concessed Weapons	37	1	: 10
Challenging Another to Fight	1		1
Contempt of Court	5	3	
Counterfeiting	2		2

### OFFENSES-STATE-Continued.

	MALEN.	PEMALES.	TOTAL.
Cruelty to Animals	24		24
" " Children	3	3	6
Cutting with Intent to Wound	10	1	11
Destroying Property	96	10	196
Drunk	33	8	41
Embezzlement	21	1	22
Exhibiting Obscene Model	1		1
Forgery	9		9
Fornication	.2	1	3
Fugitives from Justice	11	1	12
Gambling	54		54
Grand Larceny	53	8	61
Horse Stealing	11		11
House Breaking	14		14
Maiming	1		1
Murder	3		3
Obstructing Officer	21	7	24
Obtaining Goods by False Pretenses	-6	5	11
" Money by " " '	24	1	25
Passing Counterfeit Money	3	1	4
Personating Officer	2		2
Petit Larceny	319	66	385
Provoking a Breach of the Peace	3		3
Rape	5		5
Receiving Stolen Property	11	2	13
" and Secreting Stolen Property	$\frac{2}{1}$	1	3
Refusing to Assist Officer			1
Removing Body from Grave	3		3
" Corpse " "	6		6
Resisting Officer	35	1	36
Robbery	н		. 8
Secreting Body	10		10
" Corpse	22221		2 2 2 1
Seduction	2		2
Shooting with Intent to Kill	2		2
" " Wound	2		2
Stabbing " " "			
Threatening in a Menacing Manner	2	1	3
Violating Railroad Law	64		64
" Pawn Broker Law	_1		_1
" Liquor Law	10		10
" Street Railroad Law	2		2
Wrongfully Using Animal	6	3	9
Total	1,327	162	1,480

#### OFFENSES.

#### CITY.

									=	_ ==
			_					MALES.	FEXALES.	TOTAL.
Abusing	Family	<b></b> .	<b>.</b>					65	1	- 66
Careless	Driving							22		22
Common	Beggar							17	2	19
M	Prostitute							1 4-0-1	29	29
	rly conduct							418	73 85	491
Drunk.								509 2,203	297	594 2,500
	ving							22	201	22
	Drunkards.							5		-5
	Disturber o						<b></b>	5	8	13
	Conduct							4	40	4
Incorrigi	ble Conduct	<b></b>		• • • • • •		<b></b>		50	10	60
1 naccent	Conduct							42	26	68
Keening	Exposure o	Honeo	ш	• • • • • • •	• • • • • •	• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·	9	1	9 2
II C PIUA	Disorderly						• • • • • • • • • • • • • • • • • • •	10	å	13
46	Gambling				• • • • • • •				.,	ii
••	House of Ill	Fame.						10	44	54
	ehaviour							2		2
Residing	in Liouse of	f Ill Fa	me					1 7	91	98
Shooting	in City Lim	iits	• • • • • •			· · · · · · · ·	. <b></b>	1		_ 1
	us Persons.	• • • • • • •	• • • • •	• • • • • •	• • • • • • •	· • • • • • •	• · • · · · • • • • • • • • • • • • • •	194	.9	203
	yg Bathing (	\ndlnon.	••••	• • • • • •	· · · · · · · ·	• • • • • • • • • • • • • • • • • • • •	•••••	243 51	17	260
* 101atil	Billiard	) : UIIIAU						16		51 16
66	Bootblack	44				· ••·••		31		31
44	Bridge	"						26		26
44	Cab	"						37		37
**	Concert Sa	iloon Or						1		1
••	Cemetery		"			· · · · · · · ·			• 2	2 43
44	Dog		**				• - • • • • • • •		4	43
**	Dray Exhibition		::				• • • • • • • • • • • • • • • • • • •	1 2		1
••	Express		44					! :ર્મેં		2 34
**	Fire		46				• • • • • • • • • • • • • • • • • • •		1	5
64	Firearms		"					10	-	10
**	Hay		"					. 4		4
• 6	Health		"					48	1	49
**	Hitching		**				• • • • • •	3		3
44	Hotel Run		"				• • • • • • • • •	3		3
	Intelligend Junk Ordi				ce		· · • • • • • • • • •	1 8		1
**	Kite and I							14		. 8 14
**	Market	Jan Old	unanc					23	3	26
44	Milk						•••••	2	••	~;
• 4	Music		44					3	1	2
**	Park		**							11
**	Peddler		44					32	1	33
6¢	Pound		64 66			• • • • • • •		27	6	33
**	Property		"	• • • • •	• • • • • • •	• • • • • • • •	• · • • • • • • · ·	53		53
••	Public Res Railroad	ort	::		• • • • • • • • • • • • • • • • • • •	· · · · · · ·	••• ••••	12		12
	DRUTHER	•		· · · · ·	·· ···	••••••	······································	. '.		7

### Offenses—CTTY—Continued.

·	MALES.	FEMALES.	Toral.
Violating Sidewalk Ordinance Street Street Railroad Ordinance Sunday Liquor Walter Girl Water Works Welshis and Measure Ordinance House of Ill Fame	323 70 24 24 6 19 2 124	1 1 2 2	323 71 25 3 8 19
MISCELLANEOUS.			
Insane	4		
Total	4		4

### RECAPITULATION.

	MALES.	FEMALES.	TOTAL.
Violation State Laws. Violation City Ordinances Miscellaneous	1,327 4,925 4	162 733	1,489 5,658 4
Total	6,256	895	7,151

### OCCUPATIONS.

OCCUPATION.	No.	OCCUPATION.	NO.
ctors	. 13	Cigar Dealers	
rents	. 61	Cigar Makers	:
oprentices	. 1	Civil Engineers	
ilets	.; 3	Clerks	1
actioneers	. 4	Clothiers	-
vning Makers	. 1	Coachmen	
co Makers	. 2	Coal Dealers	!
kers	. 31	Coffin Makers	
rbers		Collectors	
rtenders		Commission Merchants	
sket Makers	. 13	Conductors	!
ee Ball Players	4	Confectioners	i
ggars		Constables	'
er Peddlers		Contractors	
ell Boys		Cooks	i
ll Hangers	. 1	Coopera	l
acksmiths		Copperamiths	!
oatmen	. 31	Copyiets	
arding House Keepers		Cork Makers	1
oiler Makers		Dancing Masters	
olt Makers		Dentists	
ok Binders		Detectives	ŀ
ok Keepers		Distillers	
otblacks		Doctors	l
ttlers		Draymen	1
x Makers		Dressmakers	
ass Finishers		Drivers	'
ass Moulders		Druggists	1
akemen		Editors	
ewers		Electrotypers	1
ick Layers		Engineers	
ick Makers		Errand Boys	ŀ
idge Builders		Expressmen	
oom Makersothel Keepers		Express Messengers	
ush Makers		Farmers. Fence Builders	1
ilders	. 2	File Cuttone	l
tchers		File Cutters File Grinders	1
biret Makers		File Makers	
pitalists		Finishers	1
ptains		Firemen	Į.
r Drivers		Fish Dealers	1
rpenters		Fishermen	
rpet Cleaners		Fish Peddlers	1
rriage Makers		Florists	
rriage Painters.		Foremen	1
rvers		Fortune Tellers	i
sh Boys		Foundrymen	1
ttle Dealers		Frame Makers	ł
ulkers		Fruit Dealers	İ
air Makers		Gas Fitters	
neese Dealers		Gamblers	i
nimney Sweeps	3	Gardeners	l

## OCCUPATIONS—Continued.

occupation.		OCCUPATION.	NO.	
lass Blowers	1	Nut and Bolt Makers		
laziers	1	Oculists		
lue Manufacturers	1	Office Beys		
rainers	5	Oil Dealers		
rocers	12	Operators		
rooms	14	Painters	1	
lackmen	100	Paper Hangers	_	
Iarness Makers	12	Paper Manufacturers		
Latters	11	Patent Rights Men		
leaters	5	Pavers		
[elpers	1	Pawn Brokers		
Ierdsmen	4 2	Peddlers	1	
lorsemen	8	Photographers		
lorse Jockeys	ï	Piano Tuners		
Iorse Shoers	r	Pilots		
lorticulturists	2	Planers		
[ostlers	52	Plasterers		
lose Makers	1	Plumbers		
lotel Keepers	8	Polishers		
lousekeepers	483	Portres		
louse Movers	16	Potters		
ce Dealers	ï	Potters		
ce Peddlers	3	Preschers		
ron Workers	6	Pressmen		
anitors	13	Printers		
ewelers	6	Private Watchmen		
oiners	.1	Prostitutes	2	
unk Dealers	1 100	Puddlers		
aborersathers	1.138	Quarrymen kag Peddlers		
aundresses	4	Rag Pickers		
aundrymen	6	Railroad Men	1	
awyers	19	Real Estate Agents		
ead Workers	4	Reporters		
ecturers	1	Restaurant Keepers		
etter Carriers	1	Rivet Heaters		
iquor Dealers	×	Rolling Mill Men	1	
Athographers	2 5	Roofers		
ivery Meepers	4	Sail Makers.	:	
ocksmiths	i	Salesmen		
umber Dealers	-	Salesmen Saloon Keepers	5	
[achinists	94	Sash Makera		
anufacturers	5	Saw Makers		
arble Cutters	.6	Sawyers		
a-one	31	School Boys	3	
lechanics	84	School Girls.		
lerchants.	9	Scroll Sawyers		
Illers	:34	Seamstresses.		
Illiners	3	Servants		
illwrights	2	Sewer Builders		
liners	6	Sewing Machine Men		
lisrionaries	1	Ship Carpenters		
loulders	84	Shoomekere	1	
usicians	18	Shooting Gallery Keepers.		
ail Makers	3	Shop Lifters		
ews Agents	18	Showmen		
~	442	Soap Manufacturers		

#### OCCUPATIONS—Continued.

OCCUPATION.	No.	OCCUPATION.	No.
Soldiers	7	Tobacconists	
Spar Makers	1	Tool Makers	8
Spinners.,	1	Tourists	2
Spring Makers	8	Traders	17
Steel Workers	1	: Tramps	25
Stevedores	2	Trimmers	1
Stewards	1	Trunk Makers	
Stokers	1	Tugmen	•
Stone Cutters	32	Turners	
Stone Masons	5	Undertakers	
Store Keepers	ÿ	Upholsterers	
Stove Mounters	7	Veterinary Surgeons	
Students	ġ	Wagon Makers	1
Superintendents	4	Waiters	4
Switch Tenders	ĩ	Washerwomen	_
Tailors	43	Wax Finishers	
Tailoresses	- 3	Weavers	
Tanners	13	Well Diggers	1
Teachers	5	Wheelwrights	•
Teamsters	186	Whitewashers	1
Telegraph Operators	~ 3	Wire Workers	â
Thieves	27	Wool Manufacturers	.,
Threshers	~ ~ 2	WOOL PLANTAGE HISTORY	
linkers	12		
Tinamiths	. 38	Total	7.15

#### NATIVITY.

	No.	'	No.
Australia.	1	Italy	95
Austria	6	New Brunswick	- :
Bavaria	ï	Newfoundland	
Belgium	9	Norway	
Bermuda Islands	ĩ	Poland	9
Bobemia	158	Prince Edward's Island	
anada	216	Russia	1
Thina	~:3	Saxony	
'uba	ĩ	Scotland.	10
Denmark	- 5	South America	1117
England.	390		
	90	South Wales	
rance		Spain	
lermany	RSR.	Sweden	Ī
reece	:	Switzerland	
Hanover		United States.	3,87
Holland	Ţ.	Wales	5
Hungary	21	West Indies	
reland.	1.328	;	
sle of Man	9	Total	7,15

## MONTHLY STATEMENT OF ARRESTS.

	Con	ial d'n.	Edu tio		Se	κ.	Ma	lć≈.	Fem:	ales	Col	or.	
Молтн.	Married.	Single.	Read and Write.	Unable.	Males.	Females.	Males Married.	Males Single.	Femules Married.	Females Mngle.	White.	Colored.	Total.
January. February March. April May. June July. August September. October November December	144 176 216 253 255 243 304 342 310 222 220 188	3453300 434 444 335 425 444 443 55 425		22 48 67 77 77 77 95 12 78 74 74 99	353 350 469 581 608 477 656 676 567 564 300	38 533 70 72 69 70 109 130 87 4 68 45	189 214 221 231 235 235 235 238	\$301 \$201 \$207 \$274 \$410 \$436 \$436 \$436 \$436 \$436 \$436 \$436 \$436	10 22 22 22 23 24 70 24 22 22	25.25.25.25.25.25.25.25.25.25.25.25.25.2	626 655 525 751 774 669 506 606	23 16 16 16 22 21 24 24 15 16	539 657 677 547 762 806 688 611
Total	2483	4268	6337	814	7256,	895	2433	3823	435	450	6908	243	715

#### . AGES.

MONTHN.	Under Ten.	Ten to Fifteen.	Fifteen to Twenty.	Twenty to Thirty.	Thirty to Forty.	Forty to Fifty.	Fifty to Sixty.	Slxty and Over.	Total
January February March April May June July August. September October. November December	3 3 1 0 3 9 7 4 13 1	12833512364164841	65 41 80 93 109 62 114 130 81 71 83	143 131 200 200 208 117 253 256 217 253 144	84 99 124 164 187 169 150 127 148 118	52 25 59 54 57 55 58 66 71	22.22.22.22.22.22.22.22.22.22.22.22.22.	9 10 12 15 25 14 12 21 16 12 17 8	391 408 539 653 677 765 806 681 611 622
Total	47	382	986	2,500	1,642	961	402	171	7.151

#### DISPOSITION OF CASES.

	No.		No.
Bail Forfeited	29	Fine and Costs and Work House	577
Bound Over to Court Common		House of Refuge and Correc-	
Pleas	96		8
Costs	833	Nolle Prosequi	400
Costs and Committed till Paid		Permitted to Leave the City	:
" " Work House	8	Remanded to Authorities from	
Costs Divided between Prose-		Abroad	44
cution and Defence	16	Abroad	-
Discharged	40	thorities	
Dismissed	499		ā
" At Cost of Prosecu-		Sent to Retreat	i
tion	18		16
" On Payment of Costs.	286	Turned Over to County Sheriff.	- 3
Fine and Costs	2,007	Turned Over to Friends	ē
" And Committed	~,000	Undisposed of	ż
till Paid	1,061		, June .
" " And Committed	TAIRL	Total	7,151
to Jail	6		1,1471
" " And House Sup-	U	1	
	- 1	ı	
pressed	1	†	

# COMMITTED TO WORKHOUSE AND HOUSE OF REFUGE AND CORRECTION.

.	WORK	HOUSE.	W'khouse.		P REPUGE RECTION.	. k	t to ise e of ind	
Month.	Males.	Females.	Total W'kh	Males.	Females.	Total H. R	Total Sen Workhou and Hous Refuge a	
January	53	16	69	3	0	3	72 65 81 91	
February	15	13	58	7	0	7	65	
March	54	18	72	8	ļ	9	81	
April	68	17	85	5	1	: 6	91	
Мау.	653	17	80	2	1	3	83	
June	37	15	52	8	0	- 8	- 60	
July	68	20 20 20	91	2	, 0	2	92	
AUKURL	67	22	89	7	1	- 8	97	
September	68	20	XX	6	0	6	93	
October	54	16	70	Ð	3	×	78	
November.	70	25	95	7	0	7	102	
December.	72	13	85	3	1	. 4	80	
Total	719	215	934	63	8	71	1,005	

#### LODGERS.

Монти.	No.	MORTH.	No.
January	314 316	Brought Forward. July August	1,389 20 30 84
larchprillay	438 114 147	September October November	200 280
June Forward	1,389	December	30

#### FINES AND COSTS COLLECTED.

MONTH.	AMOUNT, MOPTH.		AMOUNT.	
January February March April May June	\$1,095 29 881 11 1,422 44 1,907 48 1,524 60 1,232 88	Brought Forward July August September October November December	\$ 8,063 80 1,566 37 1,566 77 1,586 66 1,286 77 2,358 77 887 42	
Forward	\$8,083 80	Total	\$16,621 81	
Amount Collected by Worki	nouse Auth	orities	2,826 30	
Total Fines and Costs Col	llected		<b>\$</b> 19,448 11	

# PROPERTY REPORTED STOLEN AND RECOVERED.

MONTH.	STOLEN.		RECOVERE	D.	PER CENT. RECOVERED.
nuary	*. ** 5.084		\$ 5,462	00	107.4
bruary	1,556		2,052		131.7
arch	1,222		469		38
pril	1,192		1,198		100.4
ay	4,590		4,206		91.0
me	2,519		769		30.4
ıly	1,507		1,208		80.
ugust	1,984		555		27.
ptember	1,778		2,519		141.0
xtober	4,253		3,567		83.1
vember	1,944		706		36.3
ecember	1,741	50	881	50	50.0
Total	\$29,373	43	\$23,595	95	
Per Cent. Recovered in 1878.		• • • • • •	·	-	80.33
Increase of 1878 over 1877					57

## FINANCIAL STATEMENT.

#### POLICE FUND.

Balance January 1, 1879		\$19,364 39 151,245 97
Total		\$170,610 36
Disbursed. Bills of 1877 paid in 1878. Balance Total	2.400 00 13,061 65	\$170,610 36
<u> </u>	<del></del> :	
POLICE COURT FUND	).	
Balance January 1, 1878		\$1.828 55 9,234 86
Total	•	\$11,068 41
Disbursed	\$9,382 03 1,676 38	\$11.05% 41
CONTINGENT FUND  Balance January 1, 1878. Receipts to January 1, 1879	,	\$ 6,856 87 4,659 89
Total		\$11,516 76
Disbursed to January 1, 1879.  Balance.  Total	\$ 5,606 92, 5,909 84	\$11,516 76
LIFE AND HEALTH FUR	ND.	
Balance January 1, 1878		\$3,620 21 832 60
Total		\$4,452 81
Disbursed to January 1, 1879 ('ity Note	\$ 896 70 3,000 00 556 21	<b>34,432</b> 81
اليوريوني والمحادث والمستسبب والمساد المستداد		

### LIST OF MERCHANTS' POLICEMEN,

APPOINTED AT REQUEST OF CITIZENS AND COMPANIES, ON DUTY DECEMBER 31, 1878.

NAMES.	DATE OF APPOINTMENT.		
Butler, Frank	L. S. & M. Ry	Decem'r	19, 1878
Barrett, J. A	Purk	Mar	9 1974
Rower W	Theatre Comique Purk Starkweather Avenue	May	2, 1876
Barnes, L. M	L. S. & M. S. Ry Park Euclid Avenue	**	
Baylars, T	Park		44
Bousal, S. W	Euclid Avenue	May	11, 1876
Baker, C. W	Prospect Street	October	10, 1876
Plemingham T H	Prospect Street Franklin Avenue Kinsman Street Ry. Saw Mill	NOV.	19 1878
Rarnes A. W	Saw Mill	May	12, 1878 25, 1877
Burrows, R.	District Telegraph	August	20, 1877
Benethah, D	Cleveland Rolling Mill Co	Dec.	21, 1877
Butler, D	Saw Mill District Telegraph Cleveland Rolling Mill Co. B. M. and Brayton. Lake Shore Rolling Mill. Lake Shore Plate Mill. East Cleveland R. R. Woodland Cemetery Northern Ohlo Lunatic Asylum. Mingman Street B. B.	June	20, 1878
COOK, H	Lake Shore Rolling Mill		
Cretor C I	Foot Cloveland R R	44	
Cole. J. E	Woodland Cemetery	July	18, 1878
Copeland, W. C	Northern Ohio Lunatic Asylum	May	6, 1878
Conneil John	Amenda Purt II. II	Dec.	T3. TC1C
Cutler, C. J	East Cleveland R. R	Febru'r:	y 9, 1877
Cumming, A. E	Kinsman Street R. R	Dec.	12, 1878
Doyle, I	Willeon Avonue	May	0, 10/0 93 1978
Debandt, C. A	Prospect Street Willson Avenue Brownell and Prospect Streets	October	8. 1878
			4, 1876
Enwright, P	Car and Bridge Works L. S. & M. S. Ry Opera House Superior Street, S. O	Sept.	1. 1876
Elmendorf, I	Car and Bridge Works	•	**
Evans, D	L. S. & M. S. Ry	 	
Flannican W I	Support Street S ()	Muy	2, 1876
Flaherty E	L. S. & M. S. Ry. Markets C. & P. Ry. Private Detective Co-Operative Stove Co	May	3, 1876
Farr. W	Markets	June	27, 1876
Fay, M.	C. & P. Ry	March	15, 1877
Francisco, J. W.	Private Detective	Dec.	31, 1878
Gilchrist, J	Co-Operative Stove Co	May	2, 1876
(211mov )	Superior and Long Streets	War	5, 1876
Gumboch, Geo.	Co-Operative Stove Co	May	9, 1876
Glom, T. D	Co-Operative Stove Co Euclid and Willson Ayenues.		
Grav. N	Cleveland Rolling Mill Co	Nov.	7, 1878
Henry, Geo	Cleveland Provision Co	May	2, 1876
Harrigan, J	Northern Transit Co	::	
Hickery I	Water Street		
Houghton, S. R.	City Hall Northern Ohio Lunatic Asylum	May	6, 1876
Hill. Henry	Clinton Park.		
77 f	A se Assessed a 1816 all a sealer to 41.	34	19, 1876
Harris, C. W	L. S. & M. S. Ry	. June	28,11878
Huley, H	East Cleveland Ry	July	18, 1877
Honoon (	A & A W Re	· July Outobox	3, 1877 8, 1877
Haver, G. A	Gattling Gun Armory	. August	3, 1878
Hedron, J	Andrews, Hitchcock & Co. L. S. & M. S. Ry. East Cleveland Ry. Eaclid Avenue A. & G. W. Ry. Gattling Gun Armory Sterling's Pipe Works Evolld Avenue	May	2, 1876
COMMINSO It. A	Bucha Avenue		
Johnson, J	Pearl Street	May	3, 1876

## LIST OF MERCHANTS' POLICEMEN—Continued.

NAMES.	WHERE STATIONED.		DATE OF APPOINTMENT.	
Johnson, J	Merwin Street	May	5, 1876	
Jones, J. H	Eighteenth Ward	Dec.	26, 1876	
Koehler, H	. C. & P. Ry	May	5, 1876	
Koehler, J. H.	Rockwell and St. Clair Streets	. May	8, 1876	
Kilpatrick, T. J.	. Bond, Seneca and St. Clair	Sept.	16, 1876	
Kuntzlemaun, G	Brewers	April	26, 1878	
King, E	King Bridge Co.	Janu'ry		
Maher, Wm	Prospect and Perry Streets	. Sept.	12, 1878	
Murphy, Wm	Shovel Works		**	
Mulvey, J	C. & P. B. R. Shops		••	
Miller, H	East Cleveland R. R	· . "		
Malbouer, H	. District Telegraph Co	April	28, 1876	
Morison, W. D	. Woodland Cemetery	October	3, 1877	
Metser, H	. C. & P. R. R			
Preble, Chas	Ontario Street		4, 1876	
Ponnitzky, A	East Cleveland R. R. Co	May	9, 1876	
Peterson, J	Haltnorth's Garden	· Tumo		
	District Telegraph Co.		15, 1878	
Prayer, R	. Cleveland Rolling Mill Co.	April	17, 1877	
	Kinsman Street R. R.		12, 1877	
	Infirmary		12, 1878 5, 1878	
	A. & G. W. R. R	. May	3. 1876	
Poorts F	Co-Operative Stove Co	. May May	9, 1876	
Ricker W	East Cleveland Ry	May	11, 1876	
Riblet T)	Third Precinct Station	. June	12, 1870	
Smith. J.	Franklin Park.	May	2, 1876	
	Prospect Street	May	3, 1870	
Sechrist. C	. L. S. & M. S. Ry.	114	04,2070	
Stenhen, J	East Cleveland Ry	May	11, 1876	
Stephen . A	Broadway	. June	6. 1876	
Sexton, D	N. O. Fair Grounds	August		
Schafer, A	. East Cleveland Ry	Dec.	4. 1878	
Smithenberger, F	Monroe Street	Oct.	3, 1877	
Schneider, J	. ('ar and Bridge Works			
Tubbs, S. C	Prospect and Ontario Streets	. May	2, 1876	
Tursier, R. H.	Prentiss & Co	May	19, 1876	
Whalen, W. H	Ontario Street and Market	. May	5, 1876	
Wondersleven, Wm	. East Cleveland Ry	. May	11, 1876	
Weinman, C. P	District Telegraph Co	. April	16, 1877	
Wagner, A	. Euclid Avenue	. Dec	11, 1878	

## ANNUAL REPORT

The Celegraph Pepartment,

FOR THE

YEAR ENDING DECEMBER 31st, 1878.

• . .

## REPORT OF TELEGRAPH DEPARTMENT.

CLEVELAND, O., January 1, 1879.

To the Honorable Board of Police Commissioners:

GENTLEMEN—The following messages have been transmitted over the wires of the Police Telegraph Department during the year ending December 31, 1878:

MONTHS.	MERSAGES SENT.	MESSAGES RECEIVED.	TOTAL.	AVERAGE PER DAY.
January February	683 584 665	129 140 93	812 724 758	26 5 25 7 24 14
April MayJune	653	100	753,	25 to
	699	- 150	849	27 th
	609	- 85	694	23 to
July August September October	565	70	635	20 H
	629	92	721	23 H
	579	103	682	22 H
	684	117	801	25 H
November December	620	107	727	24 %
	703	105	808	26 %
Total	7,673	1,291	8,694	24383

The Police wires, under the supervision of Mr. H. H. Rebbeck, have been kept in good working order.

Respectfully submitted.

EMIL F. SCHULTZ,

Headquarters.

#### CONCLUSION.

The year that is covered by this Report has not been prolific of any extraordinary work other than that incident to the repression and capture of the ordinary violators of laws and ordinances. But a careful perusal of these statistics will convince the Honorable City Council that the city has been well guarded and served by its Police and Health Force,

There have been no serious outbreaks or movements calling for more than ordinary precaution, and while this Report shows over seven thousand arrests, they are mainly those that usually obtain in a city with our population.

We take pleasure in calling attention to the Financial Statement. It will be seen that the cost of maintaining Police and Health Departments has been reduced from 1877, and careful economy exercised in providing for the ordinary expenses. The funds controlled by the Board are in good condition, and the larger part invested so as to produce a revenue.

In order to give the Honorable City Council an opportunity to compare the cost, efficiency and usefulness of the Cleveland Police Department with that of several other cities, the following tables have been prepared, that exhibit clearly the large territory covered by our small force, the number of population protected by each member of the Force, the expense of maintaining each policeman, and the cost per capita of population for each man:

CITIES.	Population.	Areain Square Miles.	Strength of Force.	Pay of Patrolman	Annual Cost.
New York	1,070,000	23	2,560	\$1,200 00	\$3,500,000 00
Philadelphia	817,448	65	1,292	912 00	1.437.546 40
Chicago	500,000	38	516	850 00	534.842 78
Brooklyn	484.616	21	624	1,100 00	777,462 00
St. Louis	450,000	23	457	900 00	512,313 00
Boston	375,000	151/2	700	1,095 00	814,941 00
Baltimore	305,000	14%	574	936 00	582,000 00
New Orleans	210,000	26	568	1.000 00	624,000 00
Washington	120,000	27	242	1.080 00	325,000 00
Cleveland	155,000	28	161	756 00	157,548 71
				:	

CITIES.	Men to Sq're Mile of Territory.	Number of Population to Each Policeman.	Expenditure per Man of Force.	Exp'diture Per Capita of Populat'n
New York	111 3 19.9 13 6 29.7 19.9 45.2 30.6 21.8	418.0 632.7 969.0 776.6 . 984.7 535.7 531.3 369.7 496.0	\$1,367 18 1,112 65 1,036 52 1,245 93 1,121 04 1,184 20 1,013 94 1,098 59 1,342 98	\$3 27 1 75 1 07 1 60 1 14 2 17 1 90 2 97

The following table shows the amount of property reported stolen and amount recovered, making over 80 per cent. recovered, an amount not equaled by our force in any year previous, or by any other city in the Union for the year 1878. These figures attest the vigilance, ability and industry of the detectives as well as the regular force:

# PROPERTY REPORTED STOLEN AND RECOVERED FOR FIVE YEARS.

YEAR.	STOLEN.	RECOVERED.	PER CENT. RECOVERED.
1874	\$35,559 83	\$17,856 57	50.75
	50,100 77	29,273 35	58.41
1876	34,762 72	24,055 22	69.20
1877	37,677 97	30,052 60	79 76
1878	29,731 43	23,595 95	80 33

# COST OF POLICE AND HEALTH DEPARTMENTS FOR THE PAST SIX YEARS.

YEAR.	BAR. FUND.		TOTAL.	
1873	Police	\$158,299 18 23,416 14	ALM PIE 90	
1874		\$162,770 28 25,036 58	\$181,715 % 187,806 85	
1875	Police Health	\$168,302 68 19,549 38		
1876 1876	Police	\$152,508 30 16,168 05	2011	
1877 1877	Police	\$149,459 33 14,106 11	1	
	Police	\$145,134 58 12,414 18		

Finally the Board take a just pride in commending this report and accompanying statistical tables to the consideration of the Honorable City Council and citizens generally, confident that a perusal will convince all that the affairs of the two departments under its charge have been economically and faithfully administered.

The Board have endeavored to maintain a high state of discipline in the Force, and the laudable manner in which duty has been performed attests the success of their efforts in this direction; the character and ability of the men appointed during the year are evidence of the care exercised in their selection; the decreased cost of maintaining the two departments; the increased percentage of property recovered; the numerous convictions of criminals; the number of fugitives from justice secured and turned over to officers from other cities; the success that has attended efforts in ferreting out crime; the protection afforded citizens scattered over nearly thirty miles of territory, and four hundred and twenty-four miles of streets and alleys, by one hundred and sixty-one men, giving but 5.8 men to each square mile, all furnish evidence that the men and officers are entitled to the gratitude and commendation, not only of the Board, but the citizens, for their devotion to duty, as well as their success in discharging obligations incurred when placed upon the rolls of the Force.

All of which is respectfully submitted.

By order of the Board, GEO. G. MINOR, Secretary.

• • • ,

## A REPORT

OF THE

# Health Pepartment,

MADE TO THE

# BOARD OF POLICE COMMISSIONERS

OF THE

### CITY OF CLEVELAND, OHIO,

FOR THE

YEAR ENDING DECEMBER 31ST, 1878.

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GUY B. CASE, M. D., Health Officer

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#### REPORT

OF THE

## HEALTH DEPARTMENT.

To the Honorable Board of Police Commissioners:

GENTLEMEN:—I have the honor to submit to you the following Annual Report of the Health Department for the year ending December 31st, 1878:

There were 2,710 deaths from all causes. This shows a mortality less than that of the past few years. In 1875 there were 2,962; in 1876 there were 3,227, and in 1877 there were 2,903 deaths. 2,710 deaths in a city of this size make a death-rate of 16.72 in a thousand. This is an excellent record, as 17 in a thousand is about the standard that can generally be attained by careful sanitary supervision. Our death-rate is therefore, 28 below even what is considered to constitute a healthy city. As the population has not at all decreased, but quite the reverse, as calculated from the City Directory, the diminished number of deaths must be accepted as proof positive of greater health in the community.

#### DIPHTHERIA.

Diphtheria has attracted the most attention, and is of the greatest importance on account of the number of deaths and of the greatest interest because it is classed as a zymotic or preventable disease.

There was a total of 376 deaths, which is the largest number from any one cause. There were 456 cases reported. This would indicate a great fatality if the number of cases reported is correct; but it is very far below the actual number that existed. It is impossible to secure complete returns, as some physicians neglect to report at all, and others only the severe cases. The deaths from diphtheria for three years have aggregated 1,194; the following table gives the years and months in which they occurred:

DEATHS FROM DIPHTHERIA FOR THE PAST THREE YEARS.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Tot'l for Year	Total for the Last 4 Mos.
1876 1877 1878	41 20 20	22 40 17	24 29 14	16 16 10	7 11 14	7 19 8	12 10 19	18 19 34	58 36 65	62 75 79	82 90 62	64 45 84	408 410 376	266 246 240
Total	81	79	67	42	32	34	41	66	159	216	234	143	1,194	752

It is thus seen that this disease is most prevalent in this city in the Fall, and that this season it came on earlier and more violently than ever. When the disease became so prevalent it at once received the attention of the Health Depart-Efforts were made to diminish it as much as possible by recommending isolation and by removing all apparent causes in the form of filth. A sanitary policeman was sent, wherever a case was reported, to examine the condition of the house and premises, to abate any nuisances which might exist, to secure as clean surroundings, as possible, to offer advice concerning the separation of the sick from the well and to give directions about the use of disinfectants. Each case was also reported by the Health Department to the Superintendent of the Public Schools, who immediately made a careful search through the schools for members from the family where diphtheria was reported, and if any such were found they were sent home and not again allowed to attend school till it was declared safe by a physician's certificate. terest which the Superintendent manifested in this matter and the diligence with which he carried out the plan prescribed is worthy of all praise. There was a slight tendency on the part of some to criticise, saying that the public were being unnecessarily frightened, and that the course pursued in regard to the public schools was detrimental to the same, and was extreme, many children being kept at home when there was no need of it. It is my opinion that the plan adopted was the correct one, even though there might have been mistakes committed in particular instances. The truth is, the error was in not making the plan more comprehensive, so as to prevent inmates from infected houses from attending Sunday schools and other gatherings for children. The difficulty is that the city officials cannot so readily supervise private schools as they can the public schools, and hence, whatever rule might be made there would be many obstacles to its enforcement.

A little anxiety on this subject in the minds of parents has a salutary effect. It stimulates them to watch carefully their children, to keep their houses clean and free from offence, and prevents them from permitting their children to visit houses where the disease exists.

As to whether or not the efforts made had any controlling influence on the late epidemics I will not venture an opinion, but the above table shows these facts: That it came on with greater severity this fall than ever before, the mortality in September and October being greater than in the same months in other years.

Heretofore the disease has continued to increase during the Fall, November being the month of the greatest number of deaths. This is what we had a right to expect this year, but instead, we find that in November it very decidedly declined and continued to do so till the end of the year, to such an extent that not only are the total deaths less than they have been for the other years, but that the deaths from September 1st to December 31st are fewer than they have been in the same period in the other years.

Of the fatal cases which occurred during the last four months, 186 were investigated by the officers of this Department. These investigations have in each case been reported in writing, and this was done with the view of gaining some information if possible on the causes of the difficulty. examinations related to the sewer advantages, the kind of water used, the overcrowding of houses, as to whether the house and cellar was dry or damp, clean or filthy, any connection which the removal of night soil might have, and the general sanitary condition of the premises and surroundings. It was found that of the 186 cases, 144 used well water, 40 lake water and 2 spring water; thus nearly four-fifths used well water. This proportion is larger than it should be, providing that the quality of the water drank had nothing to do with the disease, as it is estimated by the officers of the Water Works that from 54,000 to 60,000 people of the city drink lake water, that is a little more than one-third, leaving a little less than two-thirds who use well water. The argument. however is not conclusive, first, because in the localities where well water is used there are other unfavorable conditions which might operate to produce diphtheria, and second. because the water was not analyzed, but in a number of instances there were good grounds for supposing that the water was impure.

In only 15 were there sewer connections, and in 171 there were none. Of the 186 cases in only 65 could anything be found in the sanitary conditions and surroundings to explain the occurrence of the disease; in the other 121 no cause was apparent. Of the 65 cases that seemed to be explainable, some were attributable to contagion; in 25 there was a filthy condition of the house or yard; in 10 there was dampness of the house or cellar, water in some of the latter; in 7 there

was overcrowding; in 6 there were objectionable cisterns under the kitchen; in 5 there were cesspools in bad condition, and in 3 imperfect ventilation. Among other supposed causes was that of throwing out the house refuse into the yard; one instance of a mother laying out a friend's child dead with the disease; a broken sewer; proximity of a pond of filthy water, and other causes of not sufficient importance to mention. regard to the removal of night soil I am unable to present any figures of value, still the poisoning of the air which at times occurs from this source is without doubt responsible for a part of the diphtheria, hence another reason for the substitution of sewer connections for vaults. The exact extent of the relation existing between diphtheria and filth has not yet been fully and satisfactorily determined. The disease being so prevalent in this city, to say that it is almost exclusively due to filth would seem to lead to the conclusion that Cleveland is a filthy city, which is not so. There must be other factors in the causation of the disease, which are as yet unknown. It is a matter of the greatest moment that the canse be ascertained. The problem can only be solved by close and patient research, which it is sincerely hoped the future will accomplish.

There can be no doubt but what the sub-soil dampness in certain portions of the West Side has been an active cause in the production of the disease in that locality, and it can only be corrected by proper drainage.

SCARLET FEVER.—There were 74 cases reported and 31 deaths.

MEASLES.—There were no deaths from measles during the year.

CONSUMPTION.—Consumption of the lungs ranks second as a cause of mortality, there being 245 deaths.

#### DEATHS FROM ENTERING A CESSPOOL.

During the month of May four deaths occurred which deserve special notice, having been caused by an accident of unusual occurrence, and it is therefore proper that the particulars be preserved in the records of this Department. They resulted from entering a cesspool, and the facts elicited by the Coroner's inquest went to prove that death was caused, not by suffocation or absence of pure air alone, but by poisonous gases generated therein.

It had not been opened for a number of months and the gases had become so concentrated as to prove fatal in a few The cesspool was nine feet deep, eight feet long and four feet wide. It was planked all around, also covered with planking over which were eight inches of dirt. It was separated from a privy vault by about four feet of bank, but connected with it by a log through which was a two-inch hole. This hole had been closed up for some time, so that the cesspool was cut off from all connection with the outer air except at a small opening where the waste water was poured in. There was, therefore, no ventilation. The vault, on the contrary, was tolerably well ventilated, having a good-sized and tall chimney, and in other respects in a fair sanitary con-The cesspool was used by three or four families and contained eight or nine inches of water. The vault had become pretty well filled with water from recent rains.

On the evening of May 27th Christoff Guise, who resided at 22 Grove street, the scene of the accident, decided to open the hole between the cesspool and the vault for the purpose of letting off the surplus water from the latter. He removed one of the planks from the top, making an opening about four and a half feet long by fifteen inches wide. Through this he put down a ladder on which he descended into the cesspool. He drew out the plug which was in the hole leading to the vault, whereupon, according to the man's statement, there was a rush of gas; that this made him dizzy, so

that he could not ascend the ladder although he attempted to do so, and called for help. He experienced great roaring in his ears, became unconscious and knew nothing more till he found himself in bed. In the meantime a man by the name of Williams came to his rescue. He descended and raised Guise up, so that two men at the top were able to pull him out. They then turned to help Williams, but just in time to see him fall backward from the ladder apparently dead. Another man then went down, but ere he could accomplish anything he fell dead. A fourth man also went immediately into the cesspool, but met with the same fate.

These three men lay in this hole from half to three-quarters of an hour, when some one volunteered to go in to get them out. The opening was enlarged so as to measure  $4\frac{1}{2}$  by 3 feet. A rope was put around him and he brought out one man at a time, and then descended the fourth time to make certain that there was no other body remaining in the pool. This man accomplished this without experiencing any serious effects, although it was with great difficulty that he could breathe while in the hole.

Christoff Guise, who was the first who went in, and who was rescued before life was extinct, survived about forty hours, and died with symptoms similar to those indicative of a typhoid condition.

From a careful study of the facts, it is reasonable to conclude that the vault had little or nothing to do with these sad results; but that the cesspool contained the poisonous gas, and that the liquid and mud, upon being disturbed, also gave off the sewer gases with which they were saturated. That these gases had become very concentrated is proven by the quickness with which they produced death, moreover the stench could be recognized two hundred yards distant.

These gases probably consisted of sulphuretted hydrogen with the addition of sulphide of ammonium; the former being the one which, it is believed, produced the fatal result.

There are several points in connection with this affair which it is well to remember: 1st. It demonstrates how poisonous a cesspool or sewer may become by being sealed up, and hence the great necessity of proper ventilation for affording escape to gases as they are generated. 2nd. It shows that not only receptacles of night soil may produce destructive gases, but that accumulations of waste water and material from the kitchen and other parts of the house may also evolve equally dangerous products. This is acknowledged by sanitarians, but a large number of the people seem to think that it is a matter of little consequence how dirty water is disposed of. 3rd. It should make the men whose business it is to clean filth receptacles exercise due caution lest they fall victims to the same kind of poison. It is well to bear in mind the following remarks: \* "A mere feculent odor is not necessarily injurious, nor is there much danger to be apprehended from sewers where the supply of water is liberal. Previously to emptying cesspools, privies, sewers, and the like, they should be well stirred up, as otherwise the escape of noxious vapors may take place as soon as the removal of soil com-It is not enough to find that a candle will burn in the atmosphere of a cesspool, because even then it may be dangerously charged. Further (and this is also true in the case of vaults), they should, before entry, be freely exposed to the air, an active combustion set up, and chlorine generated in them, for two or three days before the men are allowed to enter."

#### SMALL-POX.

Among the pleasant things to report is the entire absence of small-pox. This is the first time that this has occurred since the death records of the city have been kept, and it is to the well-directed efforts of the Health Department that the people of Cleveland are indebted for the absolute freedom from this loathsome disease.

<sup>\*</sup>Forensic Medicine and Toxicology, by Woodman & Tidy.

Vaccination forced upon all classes, and gratuitously furnished to the poor, has brought about this favorable result.

Not a case of either small-pox or varioloid has been reported since September 8, 1877. How gratifying is this when compared with 212 cases reported in 1874, of whom 51 died.

Nor is it because Cleveland has not been exposed to infection, inasmuch as the disease has existed in some of the neighboring cities and could easily have been brought here.

It is among the lower and poorer classes, especially foreigners, that vaccination is most neglected, and hence where small-pox is most likely to break out. To ward against this, the District Physicians are instructed to pay special attention to the vaccination of the poor who come under their care, and are provided at all times with vaccine virus for this purpose.

#### HOUSE DRAINAGE.

The sanitary wants and conditions of this city have been so exhaustively treated of by my predecessor, Dr. Frank Wells, that there is but little left to be said.

There is one subject, however, which should not be passed over unnoticed, on account of its practical importance and its great influence on the health and life of the citizens, and that is house drainage.

It is safe to say that in the majority of houses connected with the sewer the drains are constructed without regard to the rules and principles of sanitary science,—rules and principles which are so simple that every householder can and should be familiar with them and be able to judge for himself whether or not the drainage of his own house is put in as it should be.

It is my belief that neglect of this subject is largely due to lack of knowledge among the people. The dread of sickness and death (even to a ridiculous extent) is so much a part of human nature that it is not supposable that many persons would be so apathetic if they appreciated the danger. Moreover there is a special effort made to have the work done as

cheaply as possible, it being given to the lowest bidder, and it can be depended upon that the contractor will not lose but make money, and there are many ways in which he can impose on the owner of the property, as this class of work is covered up and out of sight.

A cheap sewer presents some of the following characteristics: The bed on which it is laid is not solid, and hence it settles; the pipes are uneven, so that there are depressions in which sewerage stagnates, decomposes and generates gases; the joints are not cemented tightly; where there is a change in direction, instead of using an elbow or a branch nicely cast for the purpose, it is accomplished by knocking a hole in an ordinary straight pipe, and at the break thus made another pipe is joined on in a rough and bungling manner. Again, the trap is so placed that it is impossible to get at it to clean it when occasion requires; there is a deficiency in the number and arrangement of the traps, and, above all, the absolute omission of ventilation.

A sewer constructed in this careless way is worse than useless; it does not carry off promptly the waste from the house, and it serves as an avenue for the entrance of insidious poisons, which render the house an unsafe habitation.

It is a great misfortune that all sewer gases have not an intensely disagreeable odor; some have, as e. g. sulphuretted hydrogen, but other gases, and they, the most dangerous, have no odor, and hence the absence of odor is no proof of safety. It is the strong smell of illuminating gas which allows us to introduce gas pipes into every part of our houses with perfect impunity, because, if a leak occurs, it at once makes itself known, and receives attention before any harm is done.

To secure a safe house drain, it is essential that no cheap work be permitted, the bed on which the pipes are laid must be solid, the joints tight, all branches made in the form of a Y, and not of an L; the pipes in the house should be of iron as far as possible, although sewer pipe is generally laid in the

cellar, but it must be done with the greatest care and pass from the building in the shortest direction possible, and be trapped just before entering the building. Traps should also be placed immediately under every water-closet, wash-stand, bath-tub, etc.; but most important of all is the carrying out of the principle that safety against sewer gas depends on its This is attained by ventilation, and by ventilation dilution. of sewers is meant the providing of openings for the easy and free escape of sewer gas where it will do no harm. complish this, soil pipes must in all instances run up and open above the roof, and the gas which will there escape will never again descend in a sufficiently concentrated form to do any in-To render the ventilation complete it is necessary to have another opening into the drain just outside the house, by means of a pipe also extending above the roof.

So much has been said about traps that it has become a popular idea that if drains are well trapped it is all sufficient. This is a grave error. No trap ever has or ever can be invented which by itself can prevent the entrance of sewer gas into houses, although there are traps invented here in our own city which it is impossible to force; but if a pipe cracks from frost or erosion even though ever so slightly, and so as to escape detection, nevertheless it is enough to give exit to gas and the trap is powerless to prevent it, whereas these breaks are of little moment if there is good ventilation. The latter therefore, is of principal importance, and a drain well ventilated and only supplied with the ordinary S trap is far preferable to an unventilated drain with the most expensive and most approved traps. Let every one look to it that the sewerof his house is provided with means for free egress of sewer gas and entrance of fresh air, and it is not improbable that it will result in saving the life of one or more of the inmates.

When a stench is noticed arising from a sewer it can often be removed by extending the soil pipe to the roof, where this precaution has been neglected in the first construction. It is the determination of your Health Department to carry these principles into operation as universally as possible, and to obtain the proper jurisdiction in the matter the request has been made that the following become one of the city ordinances, which we hope will meet with the favor and co-operation of the Council:

"No person or persons shall connect any building with any sewer in the city without a written permit so to do from the Health Department, signed by the Health Officer, which permit shall designate the kind and number of traps, and shall state the manner in which the house drainage shall be ventilated."

But while such great stress is laid on the injurious effects of a defective sewer it must be understood that a well arranged sewer is perfectly safe and is one of the greatest preventives of disease, and the connection of private dwellings with the public sewers is to be very strongly advised, and ought to become far more general than it is at present.

In conclusion there is an important duty which the city owes the citizens in this matter and that is to provide vents for the gas in the public sewers. This is entirely neglocted at present. The plan which experience has shown to be most effectual and practicable, and at the same time the simplest, cheapest and within the reach of this city, is the substitution of perforated man-hole covers for solid ones. If it is a question of expense it can be done without the expenditure of an additional cent, in this way, namely: Whenever it becomes necessary to procure a new cover on account of the old one being broken or worn out, let the new one in every case be a perforated cover, and in time the desirable object will be attained; although it would be far better if they could all be replaced at once. If a disagreeable odor escapes it is because there is an obstruction or a collection of filth, and the remedy is not to close up the opening, but to flush the sewer. would also be advisable to remove the traps between the sewers and the catch-basins, as the latter are generally the more filthy of the two, and this would give additional openings for ventilation. Such vents are particularly demanded in this city because the main sewers open in the direction of the prevailing winds. I have been repeatedly told by different persons that they are liable to be troubled with unpleasant odors from the sewers when the wind is from the lake, and the explanation is easy.

An officer who is very much needed by the Department is a Sewer Inspector, who is a practical plumber and is thoroughly qualified to examine house drains and sewer connections. Such a man should be constantly employed, going from house to house inspecting these matters, and report the results to this office. In these hard times of scarcity of work an Inspector of this kind could probably be obtained for some such moderate figure as is paid a sanitary policeman, and I would suggest that when the force is increased in the Spring, such an appointment be made.

#### SWILL AND GARBAGE.

The question of how to dispose of swill and garbage is still a vexed one, and is the source of much annoyance and embarrassment to this Department.

Upon application at this office the contractor sends a wagon for swill once or twice a week. For the disposal of garbage from provision stores, fish markets, etc., the following plan was adopted during the past summer: A place was selected at the junction of West River and Old River streets, where any one who desired could deposit garbage. To prevent the rapid decomposition which would result from its exposure to rain and sun, and to render its deposit here as little offensive as possible, a shed was erected to receive this material. Once a day the contractor removed all garbage from this building, and an effort was made to keep the shed disinfected. This plan has answered very well, the only drawback being that during the hot months it was somewhat of a nuisance to men

working in that locality. The proper way would be to send teams to the various provision houses to carry all waste animal and vegetable matter direct to the country; but such an arrangement would involve increased expense, and that the city is evidently not in favor of. Under the present contract, which is the most economical, it is impossible to avoid having some place where garbage can be collected, and the place selected is certainly the most available and least objectionable.

In this connection it is to be recommended that every household burn as much as possible of its kitchen garbage when other means of disposal are not at hand. When kept dry it can readily be consumed in a hot kitchen fire, and thus much waste material can be conveniently and safely destroyed. If this practice should become general throughout the city, it would conduce much to cleanliness in back yards and alleys.

#### SLAUGHTER HOUSES.

A matter which has received considerable attention from the Health Department the past year, is that of the numerous slaughter houses located in the Twelfth ward, and it will require much work and a good deal of expense on the part of the city before these houses and their surroundings are put in as good sanitary condition as they should be. It is a subject of great interest, affecting, as it does, the health and comfort of a large part of the community.

Complaints at first were very frequent, but after strenuous efforts were made to abate nuisances arising from this source, complaints were very decidedly lessened.

It has been the custom for some years to require every one wishing to establish a business of this character to first obtain a license, but it seemed to have been lost sight of that these licenses were not perpetual, but were issued for a given time. The Department desired to obtain all the control possible over these establishments, and in the early part of the season the ordinances regulating slaughter houses were carefully examined, and it was found that the above named licenses only

continued in force for one year. Every license had therefore expired some time previous. The proprietor of each slaughter house was accordingly notified to apply to the City Council for a renewal of his license, which in each instance was granted: \$5.00 being the fee, and \$1,000 the bond that the applicant should faithfully comply with the health ordinances.

Every effort has been made to keep these places as clean and as healthy as possible, and that we have been at least partially successful is proven by the very flattering report on the subject made by a committee of the Council last August.

To conduct the business of slaughtering without offense is possible, but not at all probable, for it is in its very nature an offensive trade, though it is not slaughtering which causes the greatest nuisance, but the rendering and trying, and it is this which has given the most trouble. After careful investition I am convinced that rendering will produce a very disagreeable odor, even though the fat is sweet and fresh. It is consequently necessary that in all cases some arrangement should be made for destroying the smell. Several methods have been tried, but the one which has succeeded best, and which we have caused to be adopted, is to have the steam pipe, leading from the otherwise steam-tight vessel, open into a tank of cold running water. The steam is thus condensed, and this has proved far more effective than the destruction by combustion, although both methods can be combined to advantage, as the Ammonia Works have done to destroy the noxious gases generated in their Works on Meadow street, and which has thus far answered the purpose admirably. It is very desirable that an ordinance be passed providing, that the business of rendering should not be carried on without a permit, as it seldom fails to make itself a nuisance if in too close proximity to dwelling houses. There are several places in the city now where fat, tallow or lard is melted and rendered, and against which there are bitter complaints. But there is no ordinance under which they can be made to remove, or to prevent others from conducting the same business in the best portions of the city.

The insurmountable obstacle in keeping the Twelfth ward slaughter houses in a sanitary condition is the total absence of sewer advantages. All solid refuse they are ordered to cart away, but the blood and all liquid filth is discharged into Walworth Run. During the past month I made an inspection of the condition of this stream. It receives the sewerage and waste from the stock yards, five oil refineries, one chemical company, wax works, Columbus street sewer from both directions, two soap manufactories, three breweries, sausage works, woolen mills, Swiss street sewer and ten slaughter houses, besides the street washings from all the streets terminating in this ravine. The stream was red from the blood which was running into it.

Probably no sewer in the city carries more filth than this run does; certainly no district has so much need of a sewer, or has so many offensive establishments on such a limited territory, for the entire distance from Jennings avenue to what is known as the "Pond," is only 4800 feet, or little less than a mile.

A number of arrests have been made in this locality for violation of the health ordinances, and in each instance the accused have pleaded guilty, or been proved so, and fined accordingly.

#### WELL WATER.

During the past year the City Chemist has made five thorough analyses of well water. All but one specimen contained some impurities. Two samples contained so much deleterious matter as to be totally unfit for drinking purposes. In addition I have tested quite a number of specimens in a general way, and in the majority of cases have found the water impure, and in some have found it extremely so. These facts, in connection with investigations made in this direction in previous years, leave no doubt but that the well water of this city in general is a very dangerous thing to drink, and

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every inducement ought to be held out to citizens to supply themselves with lake water. Even though on examination well water at any given time is found to be good, there is no guarantee that within a short time it will not be contaminated from some source.

There are many streets on which there are no water pipes, and again, where lake water is accessible, it is not uncommon to find people too poor to go to the expense of having pipes brought into their houses, or too indifferent. The following advice, therefore, is offered to those who either from necessity or otherwise use well water: First—Wells often become impure from stagnation; very commonly this is the whole difficulty. People only draw out the amount of water they need, this often being small compared with the capacity of the well. All that is necessary here is to pump the well out thoroughly, and as a preventive every well ought to be pumped out as dry as possible several times a year.

Although such a procedure will make the water look turbid for a day or two (the appearance being due to sand), still, when the well refills, the water will be found comparatively pure, and even the turbid water is more wholesome than the clear but impure water furnished by the well previous to this pumping process.

Second—Surface wells should never be used in the city, only deep wells. By a surface well is meant one which is usually sunk into a bed of sand or gravel lying upon an impervious layer of clay; a deep well, one which is sunk through the clay; and this impervious stratum prevents surface impurities soaking into and polluting the water. From physical causes the water in a deep well may stand at the same level as that of a surface well, the only difference between the two (and that a vital one) being the source from which they receive their supply.

The tube well affords an easy and economical way of obtaining deep water. It consists of a small iron tube, is driven

into the ground in sections, the lower end is perforated, and a pump is attached. To illustrate: Several months ago the water from a tube well (a deep one) in the Fifteenth ward was analyzed. It proved to be perfectly pure; only a few hundred feet away was a surface well to which attention was directed by the sickness of persons using it. The water was found impure, and the owner was advised to secure deep water by driving a tube well. The advice was followed and good water was the result.

#### ARTIFICIAL BUTTER.

In the early part of the year it was discovered that an artificial butter was being sold quite extensively. It is a different substance from the oleomargarine. On analysis and examination it was found to consist of one part butter and two parts lard, and the mixture colored with tumeric, to give it the shade of genuine butter. No poisonous substance whatever was found in it. A State law has since been passed to prohibit the sale of this material, except when stamped with its appropriate name. But as this manufactured butter was not pronounced deleterious by the Chemist, and as to have it marked will not render it more wholesome, it is evidently not within the province of this Department to take further action in the matter. I will, however, state for the information of the public, that there is much of this material in the market and offered for sale without being marked as the law pre-Some of it is so good an imitation of real butter that it is difficult to detect it by the taste alone.

#### MILK.

Two samples of milk were analyzed and found to be of good quality. An effort was made to charge milk dealers a license, but failed as it was decided to be illegal to collect a license fee of persons for selling their own productions. The two samples above referred to, however, are no criterion of the quality of milk sold in the city. It requires extended investigations to arrive at any conclusion, and these ought to be

made, as it is more than probable that much of the milk sold in the city is adulterated, and if so, it is doubtless the cause of much sickness among young children in the summer time. But to do this it is not necessary to have a Milk Inspector; the Health Department can easily oversee this business, if it is only allowed the requisite funds to make the analysis.

There are moreover other substances which should be analyzed; very important among them is ice. The quality of ice distributed through the city for domestic purposes ought to be carefully examined. But no action can be taken without the services of the Chemist, and this requires money, which is not at our disposal.

I would respectfully recommend that no person be allowed to sell ice in the city without written permits from the Health Department, which permit to state the source from which the ice is obtained, and that all ice wagons be numbered.

Another material for analysis is candy, in the coloring of which poisonous chemicals are at times used. This subject is not a trivial one, as it is estimated that the confectionery consumed in this country equals in value that of flour.

There certainly ought to be a fund placed at the disposal of this Department for these analyses and other contingencies.

It will be granted by any one who candidly examines the subject, that all moneys judiciously expended for sanitary measures and for prevention of disease will pay a handsome return. Sickness interferes with the prosperity of an individual and of a family; it also does so with that of a city. It is constantly forgotten how much loss is occasioned annually by disease. It has been calculated that for each death in a year there are two constantly sick; in other words, 730 days of sickness. The 2,710 deaths which occurred last year would therefore indicate that there were 1,978,300 days of sickness. The last report (1877) of the Cleveland City Hospital states its total expenditures to be \$13,507 34 and the number days of treatment 14,183 for the year. That would give an average

The expenses of the Department have been extremely low this year, being less than half what they were in 1874. I question the wisdom of this strict economy, and am inclined to the belief that it were better for the city, better for the taxpayers, if the support given the Health Department was characterized by marked liberality. I however would not be understood as addressing complaints to your Honorable Board in this matter, for I am aware that your appropriation is limited and that you are obliged to keep within your income.

The number and character of the nuisances abated will be found in the Sergeant's Report.

In conclusion please allow me to take this opportunity to express to your Honorable Board my thanks for your kindness and courtesy, and to the officers of the different departments on whom I have had occasion to call for information or advice, and to the members of the force under my control for the promptness and attention with which they have discharged the duties assigned them.

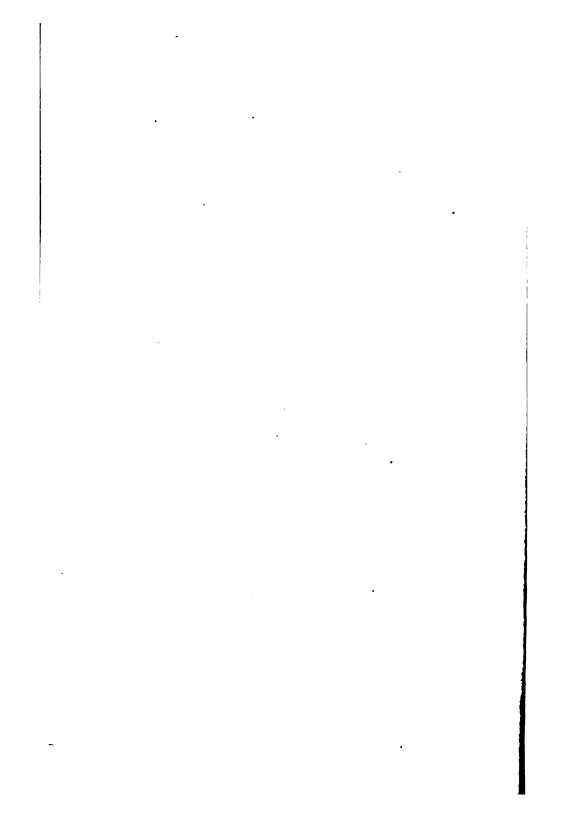
Respectfully submitted,

GUY B. CASE, M. D.

Health Officer.

CLEVELAND, O., Dec. 31st, 1878.

Statistical Pables.



ACTUAL MORTALITY FROM THE PRINCIPAL CAUSES OF DEATH, BY MONTHE, FOR THE YEAR 1978. TABLE NO. 1.

	:												ä		'I'
CAUSES OF DEATH.	January.	February.	Жатећ.	April.	May.	June.	July.	August.	September.	.redoter.	November.	December.	S781 vor latoT	Death Rate Per 1,000.	Percentage description of cause atol no senso
Death from all Causes	柔	165	<b>8</b> 8	豆	6:1	9 <u>2</u>	38	×	2	क्र	8	918	5 5	16.13	
" Xymotic Discuses	<b>\$</b>	ह	₹	8	ᇏ	沒	138	115	119	305	16	- 28	2	5.00	8 8
" " Constitutional Discases	35	\$	<b>*</b>	¥	<b>\$</b>	23	윒	×	ß	25	12	:8	617	88	81
" Developmental Diseases,	Ř	<b>3</b> î	क्	81	88	8	<u>각</u>	भ्र	æ	32	84	¥	331	3	51
" Local Diseases	Š	8	6.	85	19	\$1	8	5.	æ	8	8	ま	<b>.</b>	5.	39.08
" by Violence	7	10	•	\$1 	=	<b>L</b> -	ន	1-	Ħ	<u>1</u> -	2	•	111	88	8.
Smull-Pox.	:	_ :		-	:		:	_:_			:				:
Measles	i	:	į	:	:	i		<u>:</u>		•	•	:		:	: :
Scarlet Fever-Minors	-	63	:	-	:	61	-	10	93	61	+	11	8	81.	1.13
" Adults	:	:	_:	-				_ :	. !	:	:	:	_	_ :	
Diphtheria Minors	13	11	*	2	*	<b>∞</b>	19	ಹ	8	Æ	8	æ	8	61 61	13 61
" Adults	-	:	:	:		:	_:		63	-	¢ι	_		ş	ন 
Croup	•	61	-	<b>6</b>	-	:	i	+	7	11	2	<b>x</b> 0	28	8.	78
					-    -				_	-   	  -	-			

TABLE NO. 1-Continued.

Percentage of Lossing Section 1982	1.11	ę.	1.98	7.6	8.0	25	8.	89.	झ	8.	7.	2.8	3.8	9.0
Беяth Rate Рет 1,000	.18	의	8	7.	£.	8	21	51.	Š	8	8	1.33	ä	1.51
.8781 тот 1878.	8	81	18		<u>e</u>	2	ä	31	•	호	۲.	313	ě	345
Docember.	_ :	-	οι	-	-	G.S.	+	:	:	21	_	2	2	₩.
November.	-	-	۲-	θì	63	-	-	-	65	1-	-	=	70	2
October	•		ec.	10	•	:	_	91	-	ຕ	:	23	23	ส
September.	C.S.	- : :	1-	æ	ន	-	-;	<b>m</b>	:	<b>+</b>		20	10	23
August.	6	-	•	<b>\$</b>	9	es	:	61	-	<b>c</b>		;î	<b>a</b>	===
July.		:	Į-	28	8	<b>~</b>	_	-		G.	_	- 1	1-	16
June.	ce	- :	က	9	61	61	:	et .	-	63		83	1-	18
Мау.	28		-	1-	1-	_	Φì	10	-	4		=	•	17
April.	•	:	ıa	οι	91	:	<b>60</b>	93	•	10		=	æ	88
жегер.		:	*	:	:	:	25	63	- :		-	ត	•	19
Рергияту.	93	:	63	οι	21	:	-	-		m	:	18	=	22
January.	61	:	<b>œ</b>	-	21		61		-	,c	:	ដ		Ħ
CAUSES OF DEATH	hooping Cough	yphus Fever	yphoid Fever	iarrhuul Dizases—Under Five Years	" All agos	erebro-Spinal Meningitis	rysipcias	emittent, Intermittent, Typho Malarial.	Jooholism	ancer	heumatism and Gout	farasınus, Tabes Mesenterica and Scrofula	ydrocephalua and Tubercular Meningitis	bthisis Pulmonalis

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CAUSES OF DEATH.	January.	Keprusty.	Житећ.	April.	Жау.	June.	July.	August.	September.	.тэболэО	Хочетрет.	December.	S78I TOI IS10T	Death Rate Per 1,000,	Perventage of Exach Cause on Toral,
Pneumonia	G	2	•	2	1-	22	က	l-	1-	+	2	20	100	19:	3.60
Bronchitis	-	21	10	_	-	60	93	:	:	*	80	-	ñ	7.	88
Meningitis and Encephalitis	. :	_	+	ສ	:	-	e	-		es	-	:	16	8	<u>8</u>
Apoplexy	က	_	m	<b>?</b> ?	63	25	4	e	93	ຕ		æ	ಸ	8	1.22
Convulsions	<b>±</b>	22	::	ត	18	10	8	38	23	ត	22	=	Si	1#1	8 45
Other Diseases of Brain and Nervous System	10	21	2	1-	22	23	<b>8</b>	<b>±</b>	<b>±</b>	22	15	23	150	23	50 50
Heart Daeuses	9	23	=	z	æ,	2	<b>4</b>	•	21	2	œ	6	<b>70</b>	\$	 88
Bright's Discase and Nephritis		-	æ	91	<b>+</b>		e	91	1-	ro	က	:	8	11.	1 07
Enteritis, Gastro-Enteritis, Peritonitis and Gastritis	H	21	52	2	20	23	8	15	2	۲-	•	•	130	88	a.e
Puerperul Discascs	સ	-	-	-		ຸຕ 	:	65	_ <u>;</u>	-	:	θì	13	8	85
Premature Births	81	1-	2	ı¢	<b>œ</b>	1-	9	*	•	91	<b></b>	<b>}-</b>	8	8	25 21
Still Births	ដ	<b>±</b>	z	19	<b>=</b>	21	8	H	8	<u></u>	8	22	139	<u></u>	 
Inanition	#	_	e	:	"	<b>+</b>	11	•	<b></b>	*	-	က	90	ಕ	61 80
Deaths by Suicide	:	-	_	_	31	21	-	-	8		-	-	=	æ	8

TABLE No. 1—Continued.

Percentage of Rach Cause on Total.	1 21.	5.75	6.38	1 34.13	38 55	1 49.07
Death Rate Per 1,000.		8	8	5.71	. 6 61	8.21
Total for 1878.	8	136	133	<b>8</b>	1072	1330
December.	:	2	23	<b>8</b>	<b>6</b>	5
November.	-	- 13	<b>•</b> •	33	<b>33</b>	ğ
October.	-	22	=	7	2	82
Septemirer.	_ <b>sc</b>	<u>ដ</u>	12	<b>&amp;</b>	8	88
.48uguA	61	3	8	22	143	<u>E</u>
July.	æ	14	.c	ğ	8	241
June.	:	13	#	£	88	7
Мау.	:	16	18	18	28	7.
April.		•	2	3	25	8
.dоляМ		35	97	12	5	F
February.		92	15	\$	33	19
January.	:	13	15	23	19	2
CAUSES OF DEATH.	Deaths by Drowning	in Public Institutions	of Persons 70 years old and upwards	of Children under I year of age	of Children under 2 years of age	of Children under 5 years of age
	Deat	÷	=	3	1	3

TABLE No. 2.

DEATHS FROM ZYMOTIC DISEASES, BY WARDS.

Cleveland—Deaths from Small Pox, Measles, Scarlatina, Diphtheria, Wheoping Cough, Typhoia Fever, Typhus Fever, Cholera, 
TABLE No. 2—Continued.

Population by Wards,	8,059	8,812	3,687	1,528	1,801	5,530	2,180	25	
Total Doaths from Zymotic Piseases.	110	19	22	2	23	2	22	3	2
Other Zymotic Dis'es.	<b>+</b>	-	<b>4</b>		4	-	-	<b>∞</b>	3
Cerebro Spinal Fever	eo .	94	-	_ :			:	es	<b>2</b>
.a'asaiG lamhrrai([    /.	15	31	6. -	7.	<u> </u>	<b>*</b>	<b>1</b> C	13	218
Typhoid Fever.	<b>•</b>	<b>4</b>	:	63	-	<b>-</b>	<del>-</del>	<b>▼</b> -,-	18
Турћия Речег.	:	<u>:</u>	- :	:				<u>.</u> :	<b>8</b>
Apooblus Cough.	· :	<b>65</b>		<b>,</b>	_ :	<b>*</b>	<u>:</u>	61	8
Croup.	<b>G</b>	10	65	es	:	<b></b>	63	<b>.</b>	28
Diphtheria.		ñ	*	<b>5</b> 5	=	88	<b>=</b>	<b>a</b>	978
Searlatina.	 	61	-	: 				.c	ᄧ
. Меняіск.	:	:	- :	:		_ <u>:</u>	:		
Small-Pox.	:	_ :		.:	-		:		<u>                                      </u>
WARDS.	Bleventh Ward	Twelfth Ward	Thirteenth Ward	Fourteenth Ward	Fifteenth Ward	Sixteenth Ward	Soventeenth Ward	Bighteenth Ward	Total

TABLE NO. 3.

NATIVITY.

	MALES.	FEMALES.	TOTALS.
Cleveland	875	708	1,583
Other Parts of the United States,	219	245	464
Germany	156	110	266
Ireland	84	99	183
Anada	23	17	40
England	97	39	76
Bohemia	26	17	43
Other Foreigners	31	19	50
Unknown	2	3	5
Totals	1,453	1,257	2,710

TABLE NO. 4.

DEATHS REPORTED IN PUBLIC INSTITUTIONS.

į.	MALES.	PEMALES.	TOTALS
City Infirmary	28	13	30
Workhouse	4	<b> </b>	4
Cleveland City Hospital	6	4	10
Homœpathic Hospital	8	2 1	r
St. Luke's Rectory			••••
Little Sisters of the Poor	1	2	3
Small-Pox Hospital		.1	
Jewish Orphan Asyslum		·	
Orphan Asylum	· · · · · · · · ·	. 1	1
Charity Hospital	15	7	===
House of Maternity	28	20	48
Infant Asylum			
Water Cure		. 1	1
Monroe Street Orphan Asylum	2		2
House of the Good Shepherd.			
Insane Hospital	15	6	21
Totals	100	56	156

TABLE NO, 5. YEARLY SUMMARY FOR 1878

30.064 30.582 29.212 1 1770 6.83 20.064	-		BAROMETER	IFTER.		F	THERMOMETER.	KETER.		HUMIDITY.		WIND.		RAINFA	RAINFALL AND Melted enow.
29 971         30.652         29.074         0.888         29.9         55         4         51         76.8           29 971         30.455         29.305         1.150         31.4         57         1         56         74.3           29 966         30 382         29.311         1.071         42.4         73         19         54         71.6           29 973         30 184         20.375         0.806         53.6         81         38         43         64.1           29 913         30.282         29.589         9.519         0.000         57.1         81         37         44         61.6           29 913         30.282         29.588         0.704         65.1         86         43         43         65.7           29 913         30.985         30.176         29.404         0.774         74.3         96         57         39         73.1           29 885         30.067         30.491         29.601         0.710         71.7         90         48         43         70.5           30.077         30.491         29.316         1.164         41.6         35         39         51         64.5	1673.	Мевп.	Highest.	Lowest.	ріцевеное.	Менп.	Maximum.	.mnmintM	Difference.	Мевр Кериі∨е	Prevailing Direction,	Махітим Махітим Мопій	Total Miles Traveled.	Amount in	No.of Days on which it Fell,
29 757 30.456 29.305 1.150 314 57 1 56 17.43 29 757 30.184 29.315 1.071 42.4 73 19 34 71.45 29 757 30.184 29.315 0.806 53.0 81 38 43 64.1 29 853 30.252 29.519 0.600 57 1 81 37 44 61.6 29 853 30.057 29.688 0.704 65.1 86 43 43 63.7 29 853 30.067 29.688 0.419 71.7 90 48 42 67.3 30 077 30.490 29.316 1.164 41.6 53 29 51 64.5 30 078 30.582 29.212 1.370 25.0 46 2 46 70.5	:		30.613		0.938	9.0%	13	-	51	76.8	8. F.	8	8041	7.4:	22
29 966         30 382         29.311         1.071         42.4         7.3         19         34         71.6           29 787         30 184         20.375         0.806         53.6         81         38         43         64.1           29 828         30 289         29.519         0.806         57.1         81         37         44         61.6           29 825         30 176         20 404         0.774         74.3         86         43         43         65.7           29 885         30 067         29.668         0.410         71.7         90         44         42         67.3           30 077         30 491         29.688         0.410         71.7         90         44         42         67.3           30 077         30 491         29.688         0.410         71.7         90         44         42         67.3           30 084         29.480         29.311         0.63         65.1         86         43         43         70.5           30 084         29.282         1.370         25.0         46         2         46         77.1	:			39.302	1.150	31 4	iā	-	*	£.	ж. Е.	38	57.11	2.51	22
29 787         30 184         29 375         0.806         53.6         81         38         43         64.1           29 923         30 289         29,518         0.000         57 1         81         37         44         61.6           29 913         30 282         29,528         0.704         65.1         86         43         43         63.7           29 853         30 176         20 404         0.774         74.3         96         57         39         73.1           30 077         30 491         29,681         0.410         71.7         90         44         42         67.3           30 000         30 344         29,711         0.63         63.1         86         43         43         70.5           30 004         30 582         29,318         1.164         41.6         35         29         51         64.5           30 004         30 582         29,212         1.370         25.0         46         2         46         70.2         8				29.311	1.0.1	7.	n	2	っぱ	71.6	8. E	12	696.	5.08	81
29.825         30.289         29.519         0.080         57.1         81         37         44         61.6           29.913         30.282         29.528         0.704         65.1         86         43         43         65.7           30.855         30.176         29.404         0.774         74.3         96         57         39         73.1           30.077         30.087         29.668         0.410         71.7         90         48         42         67.3           30.077         30.491         29.211         0.870         65.1         86         43         43         70.5           30.084         29.316         1.164         41.6         53         29         51         64.5           30.084         29.212         1.370         25.0         46         2         46         70.5				20.378	0.806	53.6		 28,	<b>=</b>	64.1	ж Э.	<b>'</b>	25	86 81	92
29.913         30.222         29.529         0.704         65.1         86         43         43         68 7           29.865         30.067         29.404         0.774         74.3         96         57         39         73.1           30.077         30.491         29.621         0.870         65.1         96         43         43         70.5           30.007         30.490         29.316         1.164         41.6         33         89         51         64.5           30.054         30.582         29.212         1.370         25.0         46         2         46         70.2				39.518	0.000	57 I	18	냚	#	61.6	₩.	2	90	38	岩
29 885 30.067 29.668 0.419 711 90 474 42 07 3 30.077 30.491 29.621 0870 651 86 43 43 70.5 30.084 30.582 29.212 1370 25 0 46 2 46 70 2				39.58	0.70	63.1	88	<b>\$</b>	<b>\$</b>	æ 1-	×.	39	300	<b>2</b> 8	Ħ
29 883         30.067         29.668         0.419         717         90         43         42         67         3            30.077         30.491         29.621         0 870         65 1         86         43         43         70.5            30.000         30.344         29.711         0 633         65.3         80         29         51         64.5            30.015         30.480         29.316         1 164         41.6         53         26         27         71.6  .	:			70+ G;	£11 0		82	5.	8	5. 1.	ż	\$	5070	1.97	81
30.077         30.491         29.621         0 870         65.1         86         43         43         70.5            30.030         30.344         29.711         0 633         53.3         80         29         51         64.5            30.015         30.480         29.316         1 164         41.6         53         26         27         71.6            30.034         30.582         29.212         1 370         25.0         46         2         46         79.2	- <del>-</del> - :		30.087	39.688	0.419		8	<b>4</b>	<b>2</b>		ż	8	5394	15	71
r. 30.000 30.344 29.711 0.633 63.3 80 29 51 64.5 rr 30.015 30.480 29.213 1.370 25.0 46 2 48 79.2 rr 71.6	:	0.077	30.491			. 1 3	 28	#	<b>£</b>		ж ж	<b>\$</b>	2008	9.30	32
30.054 30.582 29.212 1370 25.0 46 2 46 79.2						53.3	8	क्ष	51		ź	8	8343	5.00	Ä
30.084 30.582 29.212 1370 25.0 46 2 48 79.2	· - :				1 164		ĸ	88	12	71.6	N.W.	3	8143	3 81	81
	-				1 370	93	\$	03	8		8. ₩.	\$	37.6	22 08	<b>\$</b> ;
27 860 60 308 28.476 0.862 50.9 73.7 28.6 45.1 08.2	Usual Means 29	288	30 358	29.476	0.882	9.05	13.	8.	45.1	8.60	80 Ei	3.6	2812	4	1.76

1878.
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DECEMBER
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THE
DURING
REPORTED
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TABLE

	AMERICAN, GERMANS.	ICAN.	GERA	LANS.	IR	IRIBH.	ENG	english.	CANA	CANADIAN.		BOHEMIA.	FORE	OTHER FOREIGN'RS	
MONTHS.	Male.	Female.	Male.	Female.	Жаде.	Female.	Male.	Female.	Males.	Female.	Male.	Female.	Маде.	Female.	.aiatoT
January.	8	18	8	8	*	**	의	. ≖	<b>→</b>	<b>x</b>	8	2	=	<b>9</b>	- 3
February	¥	8	55	8	88	19	11	8	æ	?1	8	11	œ	9	88
March	 E	<b>;</b>	55	52	88	\$	18	8	•c	**	13	11	শ্ব	#	2
April	8	\$	19	5	ži	2	16	9	24	::	8	8	<b>8</b>	82	98
Мау.	\$	8	E	\$	88	88	18	11	×c	_	10	8	-	ac	<b>8</b>
June	æ	#	8	\$	53	18	15	82	6	æ	82	88	<b>!</b> -	æ	98
July	\$	Ŧ	엻	æ	æ	8	=	13	rc.	9	8	8	<b>4</b>	₩.	<b>27</b>
August	8	85	18	82	98	æ	H	<b>£</b>	1-	3	2	<b>8</b> 1	a	_ 	476
Neptember	ę	8	8	₫	85	<b>%</b>	<b>G</b>	<b>c</b> .	**	'uc	秀	2	2	<b>3</b> .	414
October	ge.	E	5	ę	86	झ	88	8	æ	£-	\$	র	22	21	<del>1</del> 67
November	19	7	£	ic	æ	ᇙ	<b>8</b> 2	23	æ	rc.	2	15	25	*	Ě
December	<b>8</b>	25	8	F	ĸ	24	11	92	rc.	¥	<b>£</b>	<u>۲</u>	<b>e</b>	rc	Ę
Total by Soxes	<b>S</b>	3	158	<b>33</b> ₹	88	<b>18</b>	<b>35</b>	192	8	150	S	216	<u>\$5</u>	<b>1</b> 55	1887
Total Both Sexus.	1,340	. •	1.679	۾	5			37.8	-	23	. •	65		Ę	1,934

Thirty-five pairs of twins are included in the above.

Secretary's Report.

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## REPORT

OF THE

# SECRETARY HEALTH DEPARTMENT.

To the Honorable Board of Police Commissioners of the City of Cleveland, Ohio:

GENTLEMEN—I have the honor to submit herewith my Report of this Department for the year ending December 31st, 1878.

The Health Department is represented by the following officers:

GUY B. CASE	., M. D	.,	HEAL	TH OFFICER.
L. W. BAILE	Υ, .		· Secri	TARY.
		District F	Physicia <b>ns</b> .	
H. H. POWELL,	,	ıst Dist.	*H. A. SHERWO	oon, . 4th Dist.
*J. F. Gibson,		2d Dist.	*L. S. Chadwick	, 5th Dist.
			†М. L. Brooks,	
		Sanitary	Police.	
A. Vallendar	,			. Sergeant.
E. A. Webb,	W. E.	Heffron,	G. P. Covert.	‡H. Roemer
E. H. Cowper,	A. Mo	orison,	I. Richards.	
		Small-Pos	e Hospital,	
Charles Kohlman,			,	Steward.
			·	

<sup>\*</sup>Appointed May 22, 1878. \*Appointed Oct. 1, 1878, vice I. N. Oakes, resigned. \*Appointed May 30, 1878.

### RECEIPTS.

Of Fred. Hackendall, on account contract for Removal of Dea	ıd
Animals for 1877,	. \$ 50 00
Of Newburgh Fertilizing Co., on account contract for Removal	of
Dead Animals for 1878, ,	
From Sale of Calf at Small-Pox Farm	. 4 00
Total	. \$354 00
Paid the same to City Treasurer.	
RECEIPTS ON ACCOUNT OF REMOVAL OF NIGHT-SOIL.	
Received in 1878	\$7,680 49
Paid to Geo. Dart, Contractor	7,627 61
Balance on hand	\$ 52 88
DISBURSEMENTS.	
PAY ROLL.	
Health Officer	
Secretary	
District Physicians	
Sanitary Police	
Steward and Matron Small-Pox Hospital 550 00	
	\$11,302 38
SUPPLIES, ETC.	
Small-Pox Hospital	
Printing, Stationery and Postage 419 52	
City Chemist	
Filling and Draining Vacant Lots	
Removal of Dead Dogs 24 50	
Rents	
Disinfectants and Virus 16 00	
	1,180 80
Total	12,483 18
The amount paid by this Department for draining Vacant lots	
will be paid by the owners of said lots, the same having	
been included in the Tax Duplicate, consequently should not	
be included in the cost of running this Department	44 50
-	12,438 68

### REPORT OF THE HEALTH OFFICER.

Brought forward
from the Dog Tax collected therefor. This is not an actual expense to this Department, and should also be deducted 24 50
Total Cost of running this Department for the year \$12,414 18
<b>-</b> ·
REVIEW.
Pay Roll for 1877
Pay Roll for 1878 ,
•
Reduction , ,
Supplies, etc., for 1877
Supplies, etc., for 1878 1,111 80
Reduction

Total Reduction of running this Dept., 1878 over 1877 . \$1,691 93

Following this are tables showing the work accomplished by the District Physicians and the Sanitary Police during the year

Respectfully,

L. W. BAILEY,

Secretary Health Department and Asst. Secretary Board of Police.

Total.

MITAT DEPOSITE OF THE NO. 7.

ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 1, FOR THE YEAR ENDING DEVEMBER 31, 1878.  FOR THE YEAR ENDING DEVEMBER 31, 1878.  FOR THE YEAR ENDING DEVEMBER 31, 1878.  Thider 10 Years.  Constitutional.  Constitutional.  Local.  Local.  Local.  Developmental.  13			1					-
ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 1, FOR THE YEAR ENDING DECEMBER 31, 1978.  FOR THE YEAR ENDING DECEMBER 31, 1978.  FUnder 1 Years.  Under 5 Years.  Under 5 Years.  Under 50 Years.  White.  Under 50 Years.  Under 50 Years.  White.  Under 50 Years.  Under 50 Years.  White.  Under 50 Years.  Yearslead.  Sangles.  Sangl		Negroes.	0	0	0	0	0	0
ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 1, 1888, 223, 380 908, 388 71, 153 12, 1878.  SHASES, ETC.  FOR THE YEAR ENDING DECEMBER 31, 1878.  Under 1 Years.  Under 1 Years.  Under 5 Years.  Under 50 Years.  Under 50 Years.  Under 60 Years.  Under 50 Years.  Under 60 Years.  Under 60 Years.  Under 60 Years.  Under 60 Years.  Under 70 Years.  Under 60 Years.  Under 70 Years.  Vennales.  Wairried.  Wai		Bohemians.	0	c	0	•	0	0
SKASES, ETC.	•	Jews.	1 7	c	10	•	_	R
SKASES, ETC.		Irish.	¥.	101	200	22	83	3
SKASES, ETC.	NO	English.	61	*	ì-	-	c	=
SKASES, ETC.	E	German.	2	2	=	0	*	8
SKASES, ETC.		Атенсап.	8		_ 	31	0	8
SKASES, ETC.	TE	Visits Made, No. of	33	92	218	1	88	E
SKASES, ETC.	) IS	Prescription, No. of	র		8	88	8	86
SKASES, ETC.	% I	White.	131	<u>‡</u>	7.	18	88	8
SKASES, ETC.	30. 30.	Single.	115	33		1-	찬	200
SKASES, ETC.	EMI	Married.	92	झ	119	6	1	<b>3</b>
SKASES, ETC.	[A]	Females.	8	<u>-</u>	<u>æ</u>	7	52	£5
SKASES, ETC.		.solsk.	િંદ	æ	106	3,5	*6	82.
SKASES, ETC.	YS	живо Т 07 то ОО	-	+	t-	•	0	
SKASES, ETC.	H.S.	Under 70 Years.	-	Ξ	<b>-</b>	0	-	ส
SKASES, ETC.	F. J	Under 60 Years.	-	#	E	-	ı-	8
SKASES, ETC.	O E	Under 50 Years.	10	æ	¥	₩	25	<b>8</b> 8
SKASES, ETC.	RT	Under 40 Years.	ङ्	Z,	<b>192</b>	t-		왕
SKASES, ETC.	PO	Under 20 Years.	<b>+</b>	16	<del>s</del>	ಣ	1-	E
SKASES, ETC.	Œ	Under 10 Years.	덣	10	2	0	3	8
SKASES, ETC.	1	Under 5 Years.	ક્	4	92	_	0	\$
SKASES, ETC.	JA	Under 2 Years.	×	er i	Ξ	=	-	뚌
SKASES, ETC.	N	Under 1 Year.	1-	က	<b>.</b>	=	٥.	s
	AN	DISKASES, ETC:	Zymotic	Constitutional	Donolomore	Vedental	Wient.	Total

CT NO. 2. TABLE NO. 8. ANNUAL REP

DISTRI	1878.
PORT OF PHYSICIAN FOR DISTRI	FOR THE YEAR ENDING DECEMBER 31, 1878.
PORT	FOR 7

Total.	233	62	Š	8	<del>\$</del>	86.
All Others.	9		2	-	93	2
Negroes.	83	33	8	ಣ	93	15
Воћешівпя.	20	-	Οž	:	:	Œ
Jews.	81	-	8	-	93	38
.delt.I	83	28	99	8	8	37.5
English.	88	15	ķ	*	6	88
.пвап.	85	20	뜑	10	*	<b>8</b> 2
American,	88	23	86	9	:	11.5
Ye its Made, No. of	#13	3	563	100	ž	1296
Prescription, No. of	788	5	1133	8	5	35.24
White.	8	9.	8	*	<u>~</u>	\$ <del>4</del>
Single.	195	દ્ય	158	- 92	6	83
Married.	-8€	80	8	33	18	32.0
Реплаісв.	157	3	Š	8	ķī	19
Males.	118	Ñ	55	æ	3}	23
Over 70 Years.		35	1-	-	-	=
Under 70 Years.	23	=	88	80	+	92
Under 60 Years.	15	23	18	-	'n	<b>E</b>
Under 50 Years.	क्र	Ξ	F	•	2	83
Under 40 Years.	62	8	113	*	17	8
Under 20 Years.	75	<b>63</b>	15	10	<b>!-</b>	<b>₩</b>
Under 10 Years.	#	**	2	21	4	8
Under 5 Years.	85	-	æ		-	2
Under 2 Years.	রি	:	1-	က	:	8
Сифег 1 Уеяг.	*		=			88
<u>'</u>		:				
چ			:	:		
DISKASES, ETC	•	14		E I		
EANE		tion	:	nen		
	Zymotic	Constitutions	Local	Developmental	Violent.	Total

ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 3, FOR THE YEAR ENDING DECEMBER 31, 1878. TABLE NO. 9.

Total.	<u>\$</u>	317	38	ŧ	<b>£</b>	8
All Others.		:	:	- :	-:	1
Negrines.		:			:	
Волешіяпв.				:	·	1
Jews.	:	:	:	:	i	
	. <del>2</del> 8	Ę	\$	8	æ	是
English.	יי	÷	<b>*</b> C	œ	:	2
Эетпяп.	2	8	Y.C.	r:	-	=
.ne:herican.	2	<b>3</b> 2	:	33		8
Visits Made, No. of	99	8	5	8	5	118
Prescription, No. of	5.	8	<b>39</b>	<b>38</b>	35	15
Color.	*	×	×	≱	≽	.  %
Single.	110	150	3	র	8	, ## #2
Магтед.	8	167	8	ĸ	23	8
<b>Г</b> еппадея.	8	<u>167</u>	8	ş	æ	317
Males.	2	25	ଛ	33	8	33.8
Over 70 Years.		:	:		:	Ī :
Under 70 Years.	ıc	33	80	œ	-	#
Under 60 Years.	R	10	\$3	JC.	35	₩.
Under 50 Years.	\$	23	85	15	<b>*</b>	181
Under 40 Years.	8	26	30	35	9	<b>35</b>
Under 20 Years.	19	9	•	9	*	<b>3</b> 8
Under 10 Years.	82	2	**	i	2	E
Under 5 Years.	35	88	:	-		æ
Under 2 Years.	œ	22	:	:	:	8
Under I Year,	,10	*	:	i	:	0
DINEASER, ETC.	Zymotic	Local	Constitutional	Developmental	Violent.	Total

TABLE NO. 10.

	. ТетоТ	51	Ž	)C	Ř	æ	8
	А)) Отрет.	- <u>-</u>	:	:	-:	-	i .
	Negroes.	_	:	:	:	-	-
	Bohemians.	-	23	:	61	:	23
	Jews.	-	_	i	:		21
<del>1</del> .	. Іліяр.	,C	2	÷	*	-	支
9	ւնուցին, ՝	<b>65</b>	t-	:	15	_	*8
-	.пипп.	32	39	က	æ	<del>-</del>	
IC	Атенеяп.	16	3	\$5	6-	:	<u> </u>
ľ.R.	Visite Made, No. of	Ñ	<b>£</b>	23	\$	#	<b>\$</b>
IS.	Prescription, No. of	±	- 612	92	8	+	908 606
O ≅	Сојог.	×	:	:	:	:	i :
OR ER 3	Single.	*	<u> </u>	-	<b>±</b>	35	<b>a</b>
E E	.Магтіед.	æ	Ŧ		8	-	25
A N ECE	Беппалев.	ર્જ	<b>3</b> 5	==	117	- :	2
ORT OF PHYSICIAN FOR DISFORTHE YEAR BUILD DECEMBER 31, 1878.	жајеа.	系	:8	*	2	**	21 812
SI	Over 70 Years.	:	<b>?1</b>	:	_	:	80
HY	Under 70 Years.	:	33	:	+	:	_ <b>e</b>
P	Under 60 Tears.	• :	:	:	2	÷	23
OF 2 YI	Under 50 Years.	_	•	_	31	_	- ਲ
T. THI	Under 40 Years.	\$1	33	:	æ	;	<u>₹</u>
OR	Under 20, Years.	•	11	:	88	:	38
EP.	Under 10 Years.	æ	1-	_	 %	-	28
22	Under 5 Years.	15	•	21	ļ.	-	<b>3</b> ≨
AL	Under 2 Years.	왬	:	:	2	÷	a)
3	Under 1 Year.	ı.	:		r.:	- : -	<b>25</b>
ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 4, FOR THE YEAR ENDING DECEMBER 31, 1878.		:	:	:	:	: -	:
¥	DISEASES, ETC.	Zymotie	Constitutional	Developmental	Local	Violent	Total

TABLE NO. 11.

J.C.	
NO.	
REPORT OF PHYSICIAN FOR DISTRICT NO.	DING DECEMBER 31, 1878.
PHY	SAR ENI
0F	E YE.
REPORT	FOR THE
ANNUAL	

Total.	æ	ş	šš	9	<b>3</b>	=	151
All Others.	:	:	:	:	:	:	1
Negroes.	*	:	æ	:	:		2
Ворешіяпя	•	4	-	:	_	:	=
лемы.	:	- :	:	:	:	:	1
Irlsh.	_	63	•	:	:	į	9
guttyp.	-	33	8	0.5	:	:	=
Сегтяп.	æ	=	2	rc	*	:	**
ушеңеяп.	33	19	22	æ	+	=	æ
Visits Made, Vo. of	117	8	7.	ë	22	Ξ	814
Prescription, No. of	€	33	-83	ķī	31	=	i <u>s</u> ≨
. Угріте.	鸨	哥	¥	2	3	=	Ξ
Single.	ë	es	_ 61	35	+	=	<b>2</b> 2
.БыттыМ	*	系	*	30	10	. :	F
Female.	1	=	Ä	9	33	:	1
Жајеа.	81	æ	16	:	ţ-	=	72
Over 70 Years.	i	æ	:		:	-	·
Under 70 Years.	· <del></del>	33	æ	:	-	:	2
Under 60 Years.	:		+	:	33	:	=
Under 50 Years.	_	10	=	_	33	:	- <b>8</b> -
Under 40 Years.	œ	==	8	t-	-		9
Under 20 Years.	æ	_	œ	93	:		<u>e</u>
Under 10 Years.	+	:	-	:	25	:	<b>t-</b>
Under 5 Years.	6	_	:	:	_:		9
Пидет 2 Уеага.	æ	-	**	:	:		22
Under 1 Year.	,c	- :	<b>6</b> 5	:	-	=	2
DISEASES, ETC.	Zymotic	Constitutional	Local	Developmental	Violent	Vaccinated	Total

TABLE NO. 12.

ANNUAL REPORT OF PHYSICIAN FOR DISTRICT NO. 6,

FOR THE YEAR ENDING DECEMBER 31, 1878,

, ІвтоТ	9	氢	ŝ	ķī	<b>£</b>
All Others,	10	9	3	ຕ	<b>F</b>
Хектовя.	:	-	-		-
Nohemians.	<b>91</b>	#		91	श्च
Jews.	-:	:	:	Ī	
,մոհել	- R	Ħ	S	¥	S
.նույլեր,	器	72	Ħ	<b>31</b>	E
(1617)	-	1-	æ	:	2
Атеневт.	້ອ	5	t-	e	38
Yesita Made, No. of	8	115	121	€	518
Prescription, No. of	151	¥.	23	6	<b>8</b>
White.	- :	:	•	:	191
Single.	茶	9	\$	<b>a</b>	138 161
.Магтеед.	8	113	7	25	3
Females.	23	Ę	3	+	E
Malos.	Æ	€	iā	ĸ	எ
Over 70 Years.	_ :	35	<b>6</b> 5	:	+
Under 70 Years.	31	क्र	æ	-	# ·
Under 60 Years.	31	ë	ñ	93	છ
Under 50 Years.	16	ķī	ž	<b>+</b>	ક
Under 40 Years.	25	<b>%</b>	₩.	=	8
Гисег 20 Усыта.	10	홄	Ξ	æ .	33
Under 10 Years.	æ	ĸ	=	-	श
Under 5 Years.	ŧ-	6.	+	:	ลิ
Under 2 Years.	+	_	æ	:	oc i
Under 1 Year.	10	10	<b>3</b> .		2
DINKANKS, KTV	Zymotic	onstitutional	Local	Violent	Total

CLEVELAND, JANUARY 1, 1879.

showing all the nuisances which have been abated during that time.

A. VALLENDAR,

Sergeant Sanitary Force.

	Privies, New.	Sewers.	Sewers, Connection.	Stables.	Stables, ('ow.	Streets, Filthy.	Swill and Garbage.	Water (Tosets.	Wells.	Vaults, Privy, Closed.	Vaults, Privy, New.	Vaults, Privy, Cleaned.	Yards.	Total by Months.
· 5	14	48	3	40	39	47	392	32	13	30	29	197	382	3041
7	11	37	1	27	19	45	:284	26	8	10	14	157	2:20	2250
2	20	53	7	53	44	48	355	18	8	18	41	213	669	3777
5	14	48	3	40	39	47	392	32	13	30	29	197	382	3041
h	18	50	24	30	36	24	379	20	22	21	36	248	408	2969
В	22	52	25	69	88	33	460	32	19	22	44	379	572	4309
	24	26	21	55	65	29	372	24	9	8	25	231	445	3158
ŀ	19	52	30	67	105	30	531	35	20 1	20	42	247	611	4551
Þ	12	35	12	78	80	25	416	25	12	9	29	211	480	3486
þ	11	38	13	61	80	17	407	19	9	13	30	182	467	3316
ķ	12	41	16	55	81	22	582	22	8 .	15	36	219	595	4177
ļ	11	21	5	54	50	24	801	17	. 4	5	17	101	श्रा	2531
	183	501	180	633	724	391	4851	302	146	201	372	2582	5517	40612

ssed by the Police Court.

· i · - . -.

# ANNUAL REPORT

OF THE

# PROCEEDINGS OF THE POLICE COURT,

FOR THE

YEAR ENDING DECEMBER 31, 1878.

• 

# Police Court Report.

To the City Council of the City of Cleveland:

### NUMBER ARRAIGNED.

City Cases.	Number of Persons arraigned	5,777
State Cases	Number of Persons arraigned	1.252
-	Number of State Examinations	248
	Total number arraigned before Court	7,277

### FINES AND COSTS ASSESSED.

•	Amount of fines assessed. " " costs "		1
State Cases	Total am't of fines and costs assessed  Amount of fines assessed  " " costs "	\$ 6,242 00 4,022 64	
, , , , , , , , , , , , , , , , , , ,	Total am't of fines and costs assessed		
	Total amount of fines and costs assessed in City and State cases		\$42,135 95

### FINES AND COSTS COLLECTED.

City (	Cases	. Amount of fines collected	\$ 9,929 0	0
••		" " eosts "	2,458 8	<b>S</b> 4
••	·	 		 \$12,387 84
State	Cases	Amount of fines collected	\$ 2,831 (	10
**		. " " costs "	1,902 9	12
		Tot. am't of fines and costs collected		4,233 92
		· Total am't of fines and costs col- lected in City and State cases		\$16,621 81

## DISPOSITION OF FINES AND COSTS COLLECTED.

	<del>,</del>		
	Am't of fees paid witnesses and jurors \$	889	00
	Am't paid Police Commissioners for serving writs	1,780	96 <sup>1</sup>
City Cases.	Am't paid City Treasurer	9,717	93
State Cases	Am't paid County Treasurer	4,175	92
	Am't paid Humane Society	58	00
City Cases	Total amount of fines and costs disposed of  Amount of fines and costs collected at the Workhouse		891
	Total amount collected at the Workhouse, for all of which the Police Court Fund receives no credit		2,826 30 
	Total amount collected at the Police Court and Workhouse		\$19,448 11

### CITY CASES.

	113	CASES.	
Intoxication	2534	Violating Park Ordinance	11
Disturbance	581	Gambling	11
Disorderly Conduct	514	Peddling without License	10
Violating Sidewalk Ordinance	316	Indecent Exposure of Person	9
Vagrancy	266	Immoral Conduct	9
Suspicious Person.	223	Violating Wagon Ordinance	9
Visiting House of Ill Fame.	141	" Junk "	8
Residing in House of Ill Fame	99	" Water Works Ord	8
Destroying Property	86	Keeping Gambling House	7
Violating Street Ordinance	73	Violating Railroad Ordinance,	5
Indecent Conduct	68	" Hay "	4
Abusing Family	66	" Music "	4
Keeping House of Ill Fame	55	" Runner "	2
Violating Property Ordinance	51	" Milk "	2
" Health "	50	" Street Car "	2
" Bathing "	50	" Sunday "	2
" Dog "	45	Keeping Waiter Girl Saloon	2
" Hack "	40	Lewd Behavior	2
" Pound "	34	Habitual Drunkard.	1
" Sunday Liq'r "	29	Cruelty to Animals	1
" Boot Black "	29	Exhibiting without License	1
Common Prostitute	29	Using Indecent Language	1
Violating Market Ordinance	27	Rude Conduct	1
" Express "	26	Defacing Trees	1
" Bridge "	25	Injuring Property	1
" Peddling "	25	Challenging Another to Fight	1
Fast Driving	22	Violating Waiter Girl Ordinance.	1
Careless Driving	22	" Dray "	1
Common Beggar	20	" Concert Saloon "	1
Keeping Disorderly House	18	" Fire Telegraph "	1
Violating Weight and Measure	16	" Exhibition "	1
Ordinance Ordinance	10	" Bill Board " .	1
Violating Fire-arm Ordinance  " Hall "	16 15	" Passenger "	1
" Billiard "	15	" Fire "	1
Habitual Disturber of the Peace	15	Violating Intelligence and Em-	
Violat's Public Resort Ordinance	12	ployment Ordinance Total	1
violat g ruphe resort Orumance	12		5,777

### STATE CASES.

Assault and Battery Violating Railroad Law				
Violating Railroad Law	•	398	Personating Officer	3
Incorrigible Conduct 56 Provoking Breach of the Peace Gambling 48 Threaten'g in a Menac'g Manner 58 Threaten's in a Menac'g Manner 58 Threaten'g in a Menac'g Manner 58 Threaten's in a Menac'g Manner 58 Threaten'g in a Menac'g Manner 59 Threaten'g in a Menac'g Manner 59 Threaten	Assault and Battery	312	Body Snatching	3
Gambling	Violating Railroad Law	60	Buying Stolen Property	3
Carrying Concealed Weapons Resisting Officer. Intoxication. Obstructing Officer. Assaulting Officer.  Obtaining Money by False Pretenses.  Cruelty to Animals. Destroying Property  Tembezzlement. House Breaking Secreting a Corpse Contempt of Court. Receiving Stolen Property  Wrongfully Using Horse Cruelty to Children.  Cruelty to Children.  Cruelty to Children.  Cruelty to Children.  Cruelty to Children.  Cobtaining Goods by False Pretenses.  Separation.  Shear Receiving and Secreting Stolen Property.  Destroying Property by False Pretenses.  Sheaking into a Railroad Car.  Sheaking i	Incorrigible Conduct	56	Provoking Breach of the Peace .	3
Resisting Officer. 37 Receiving and Secreting Stolen Property. 38 Property. 39 Obtaining Property by False Pretenses. 30 Breaking into a Railroad Car. 30 Destroying Property. 30 Destroying Property. 31 Destroying Property. 32 Assault. 32 Violating Street Railroad Law. 32 Adultery. 32 Secreting a Corpse. 39 Receiving Stolen Property. 30 Destroying Trees. 30 Destroy	Gambling	46	.Threaten'g in a Menac'g Manner.	3
Property. Obtaining Property by False Pretenses.  Assaulting Officer.  Assaulting Officer.  Obtaining Money by False Pretenses.  Cruelty to Animals.  Destroying Property.  Embezziement.  House Breaking.  Contempt of Court.  Receiving Stolen Property.  Unlawfully Delivering a Corpse for Medical and Surgical Study.  Obtaining Property by False Pretenses.  Destroying Property by False Pretenses.  Assault.  Destroying Trees.  Assault.  Violating Street Railroad Law.  Selling Liquor to Minors.  Selling Liquor to Intoxicated Person.  Refusing to Assist an Officer.  Receiving Stolen Property.  Violating Property by False Pretenses.  Cruelty to Animals.  Selling Liquor to Minors.  Selling Liquor to Intoxicated Person.  Carrying Obscene Model.  Violating Property by False Pretenses.  Seault.  Violating Property by False Pretenses.  Seault.  Seault and Threatening.  Seault and Threatening.  Total.  Total.	Carrying Concealed Weapons	39	Fornication	3
Intoxication	Resisting Officer	37	Receiving and Secreting Stolen	
Assaulting Officer. 26 Breaking into a Railroad Car. 26 Destroying Money by False Pretenses. 26 Assault. 27 Destroying Property. 27 Embezziement. 28 House Breaking. 29 Secreting a Corpse 20 Contempt of Court. 20 Receiving Stolen Property. 20 Violating Liquor to Intoxicated Person. 21 Person. 22 Carrying Obscene Model. 26 Carrying Obscene Model. 27 Violating Pawnbroker Law. 28 Carrying Gambling House. 29 Carrying Gambling House. 29 Carrying Obscene Model. 20 Violating Gambling House. 20 Carrying Gambling House. 20 Carrying Gambling House. 20 Carrying Gambling House. 20 Carrying Gambling House. 21 Carrying Gambling House. 29 Carrying Gambling House. 20 Carrying Gambling House. 20 Carrying Gambling House. 20 Carrying Gambling House. 20 Carrying Gambling House. 20 Carrying Gambling House. 21 Carrying Gambling House. 21 Carrying Gambling House. 21 Carrying Gambling House. 21 Carrying Gambling House. 21 Carrying Gambling House. 21 Carrying Gambling House. 21 Carrying Gambling House. 21 Carrying Gambling House. 22 Carrying Gambling House. 21 Carrying Gambling House. 22 Carrying Gambling House. 21 Carrying Gambling House. 22 Carrying Gambling House. 22 Carrying Gambling House. 22 Carrying Gambling House. 23 Carrying Gambling House. 24 Carrying Gambling House. 25 Carrying Gambling House. 26 Carrying Gambling House. 27 Carrying Gambling House. 27 Carrying Gambling House. 27 Carrying Gambling House. 28 Carrying Gambling House. 28 Carrying Gambling House. 28 Carrying Gambling House. 29 Carrying Gambling House. 29 Carrying Carryi	Intoxication	34		Z
Obtaining Money by False Pretenses.  Cruelty to Animals.  Destroying Property.  Embezziement.  House Breaking.  Secreting a Corpse.  Contempt of Court.  Receiving Stolen Property.  Unlawfully Delivering a Corpse for Medical and Surgical Study.  Obtaining Goods by False Pretenses.  Violating Money by False Pretenses.  28  Assault.  Selling Liquor to Minors.  Selling Liquor to Intoxicated Person.  Refusing to Assist an Officer.  Violating Liquor Law.  Carrying Obscene Model.  Carrying Obscene Model.  Keeping Gambling House.  Assault and Threatening.  Total.  Total.  1282	Obstructing Officer	30	Obtaining Property by False Pro-	2
tenses	Assaulting Officer	26	Breaking into a Railroad Car	2
Cruelty to Animals	Obtaining Money by False Pre-		Destroying Trees	2
Destroying Property 17 Embezzlement. 14 House Breaking 14 Secreting a Corpse 13 Contempt of Court. 10 Receiving Stolen Property 10 Violating Liquor to Intoxicated Person. 11 Receiving Stolen Property 10 Wrongfully Using Horse 8 Carrying Obscene Model. 11 Cruelty to Children 7 Unlawfully Delivering a Corpse for Medical and Surgical Study Obtaining Goods by False Pretenses 11 Violation Election Liquor Law. 6 Buy'g and Receiv'g Stolen Property 5			Assault	2
Embezzlement. 14 House Breaking 14 Secreting a Corpse 13 Selling Liquor to Minors. 2 Selling Liquor to Intoxicated Person. 1 Receiving Stolen Property 10 Wrongfully Using Horse 8 Carrying Obscene Model. 1 Unlawfully Delivering a Corpse for Medical and Surgical Study. Obtaining Goods by False Pretenses 1 Violation Election Liquor Law. 6 Buy'g and Receiv'g Stolen Property 5	'	25	Violating Street Railroad Law.	2
Embezzlement. 14 House Breaking 14 Secreting a Corpse 13 Contempt of Court. 10 Receiving Stolen Property 10 Violating Liquor to Intoxicated Person. 1 Wrongfully Using Horse 8 Carrying Obscene Model. 1 Unlawfully Delivering a Corpse for Medical and Surgical Study. 1 Obtaining Goods by False Pretenses 6 Violation Election Liquor Law. 6 Buy'g and Receiv'g Stolen Property 5	Destroying Property	17	Adultery	2
House Breaking 14 Secreting a Corpse 13 Selling Liquor to Intoxicated Person. 1 Contempt of Court. 10 Refusing to Assist an Officer. 1 Receiving Stolen Property 10 Violating Liquor Law. 1 Wrongfully Using Horse 8 Carrying Obscene Model. 1 Cruelty to Children 7 Violating Pawnbroker Law. 1 Unlawfully Delivering a Corpse for Medical and Surgical Study. Obtaining Goods by False Pretenses 6 Insane. 1 Violation Election Liquor Law. 6 Buy's and Receiv'g Stolen Property 5	Embezziement.	14	1 '	9
Contempt of Court	House Breaking	14	1	-
Receiving Stolen Property	Secreting a Corpse	13	Person	1
Wrongfully Using Horse	Contempt of Court	10	Refusing to Assist an Officer	1
Cruelty to Children	Receiving Stolen Property	10	Violating Liquor Law	1
Unlawfully Delivering a Corpse for Medical and Surgical Study.  Obtaining Goods by False Pretenses.  Violation Election Liquor Law.  Buy'g and Receiv'g Stolen Property  Keeping Gambling House.  I Assault and Threatening.  I Insane.  I Total.  1252	Wrongfully Using Horse	8	Carrying Obscene Model	1
for Medical and Surgical Study.  Obtaining Goods by False Pretenses.  Violation Election Liquor Law  Buy's and Receiv's Stolen Property  Total.  1252	Cruelty to Children	7	Violating Pawnbroker Law.	1
Obtaining Goods by False Pretenses 6 Insane 1  Violation Election Liquor Law. 6  Buy's and Receiv's Stolen Property 5	Unlawfully Delivering a Corpse		Keeping Gambling House	1
tenses		•	Assault and Threatening	1
Buy'g and Receiv'g Stolen Property Total 1252		6	Insane	1
erty 5	Violation Election Liquor Law	6	,!	
Abusing Officer		5		1252
	Abusing Officer	4	<u> </u>	

### STATE EXAMINATION.

UC)	Maiming	2
	Stabbing with Intent to Wound.	2
17	Receiving Stolen Property	2
11	Counterfeiting	2
9	Insane	1
8	Assault with Intent to Wound	1
8	Seduction	1
8	Shooting at with Intent to Kill	1
7	Destroying Property.	1
6	Passing Counterfeit Coin	1
6	House Breaking	1
5	Attempt to Murder	1
	tenses	1
•	Shooting with Intent to Kill	1
3 2	Total	248
	17 11 9 8 8 8 7 6 6 5 4 3 3	17 Receiving Stolen Property 11 Counterfeiting 9 Insane 8 Assault with Intent to Wound 8 Seduction Shooting at with Intent to Kill Arson. 7 Destroying Property. 6 Passing Counterfeit Coin. 6 House Breaking 5 Attempt to Murder. 4 Obtaining Property by False Pretenses. 8 Shooting with Intent to Kill. 3 Total.

## Respectfully submitted,

O. S. GARDNER.

By FRANK KARDA,

Police Clerk.

Deputy Clerk.

1 • .

## FIFTH

# ANNUAL REPORT

OF THE

## BOARD

OF

# Fire Commissioners

TO THE

CITY COUNCIL

OF CLEVELAND, O.

. •

# Fire Commissioners' Report.

To the Honorable City Council:

GENTLEMEN: — In submitting the Fifth Annual Report of the Board of Fire Commissioners for the year ending December 31, 1878, it is designed to give only such matter as may be of interest to those who may care to examine the transactions of the Board during the year. This Report will embrace:

Organization of Boards since 1874.

Financial condition of the Department, covering the aggregate Receipts and Disbursements.

Running Expenses, comparative since 1874.

Total number of Fires, Losses and Insurance since 1864.

Comparisons of Salaries between the New York Fire Department and Cleveland Fire Department.

Superintendent of Telegraph's Report, giving the number of fires, &c.

Estimated Value of Houses and Lots.

Cost and Estimated Value of Engines.

When each Engine was put into service.

Location of Reservoirs.

Statistical Tables.

Some suggestions, all of which have been compiled, and may be of interest to some of the citizens of Cleveland. The Report of 1875 was the last published in pamphlet form. The Commissioners did not order the Report of 1876 and 1877 published because they thought the expense would not warrant it.

### ORGANIZATION OF BOARDS.

The first Board of Fire Commissioners was organized under an act of the Legislature passed April 29th, 1873, and consisted of the Mayor, who was President, the Chairman of the Committee on Fire and Water of the City Council, and three resident free-holders, nominated by the Mayor and approved by the City Council; the Commissioners to hold office for one year, for two years, and three years, and thereafter one member was to be nominated and appointed annually.

This law was repealed in 1876, and the electors of the city were given the privilege of selecting four Commissioners, resident freeholders, to hold their offices: one for one year, one for two years, one for three years, and one for four years, and at each municipal election thereafter there shall be elected one member of said Board for the term of four years: one member to be appointed as in the law of 1873.

### COMMISSIONERS OF 1874.

Hon. Chas. A. Otis,			-			•	- President.
MR. H. W. LEUTKEMEYER,	•				-		Citizen Member.
MR. H. D. COFFINBERRY,				-		•	Citizen Member.
COL. W. H. HAYWARD,					-		Citizen Member.
Col. A. Van Tassell.		-		-			Council Member.
A. B. Brach.	-						- Secretary.

### COMMISSIONERS OF 1875.

Hon. N. P. Payne,		-		•		<ul> <li>President.</li> </ul>
COL. W. H. HAYWARD.	•				-	Citizen Member.
MR. H. W. LEUTKEMEYER.		-				Citizen Member.
MR. EDWIN HART, -						Citizen Member.
DR. F. J. WEED,				-		Council Member.
J. D. Shannon.	-		-		•	- Secretary.

### COMMISSIONERS OF 1876.

Mr. Joseph Turney,	•	Presid	e <mark>nt an</mark> d	Citizen Member.
MR. WM. H. RADCLIFFE,	•	-	-	Citizen Member.
Mr. John Sturznickle,	-	-		Citizen Member.
MR. NATHAN WRIGHT,	-	-	-	Citizen Member.
MR. EDWARD ANGELL,		-	-	Council Member.
A. J. SPENCER, -	-	-	-	- Secretary.
COM	MISSIONE	RS FOR	1877.	
Mr. Joseph Turney,	-	-	-	- President.
MR. WM. H. RADCLIFFE,	-	-	-	Citizen Member.
MR. JOHN STURZNICKLE,	(re-elec	ted).	-	Citizen Member.
MR. NATHAN WRIGHT,				
MR. EDWARD ANGELL, (r	e-appoir	ited),	-	Council Member.
A. J. SPENCER,				
FIFTH BOARD OF	FIRE CO	MMISSIC	NERS F	OR 1878.
MR. WM. H. RADCLIFFE,	Presid	ent, te	rm exp	ires April, 1880.
MR. GEORGE GLOYD, Citiz	en Mem	iber,		1882.
MR. H. L. MELTON,	••		• 6	1881.
Mr. Joseph Slaght,			"	1879.
MR. F. G. KAUFHOLZ, COU	ncil Me	mber, t	erm ex	pires April, 1879.
A J SPENCER -	_	_		Secretary

During five months of 1878 the business was transacted by the Commissioners of 1877. Mr. Turney's term having expired in April, the citizens elected Mr. George Gloyd to fill the vacancy. Thanks of the Board were unanimously extended to Mr. Turney for the very able manner in which he had discharged his duties as presiding officer for the two years, and the citizens of Cleveland regretted very much that Mr. Turney could not be persuaded to remain another term.

Mr. Nathan Wright, whose services as a Commissioner were highly appreciated by the citizens, as an able man, offered his resignation in May, which was accepted. Mr. Wright's reasons for severing his connection with the Board, were on account of

not being able to devote that amount of time to the Department as he thought its interests demanded, and for the same reasons Mr. Sturznickle's resignation was accepted. gell having severed his connection with the Council, Mr. F. G. Kaufholz was appointed in his place; thus the very efficient Board of 1876 and 1877 was almost entirely dissolved. Radcliffe being the only one remaining, was chosen to preside over the deliberations of the present Board, which was not organized until June 29th on account of the members in the Council differing in opinion as to whom the persons should be. selected to fill the vacancies occasioned by the resignation of Mr. Wright and Mr. Sturznickle. The controversy was finally settled by choosing Mr. Joseph Slaght to take Mr. Wright's place, and Mr. H. L. Melton to occupy the place vacated by A vote of thanks was extended to each, Mr. Mr. Sturznickle. Wright and Mr. Sturznickle for the able manner in which these two gentlemen had served the city.

### STANDING COMMITTEES.

MEN AND DISCIPLINE,
ENGINES AND APPARATUS,
BUILDINGS AND REPAIRS,
HORSES AND HORSE FEED,
TELEGRAPH,
WATER AND SUPPLIES,
FINANCE,
Messrs, Gloyd and Slaght,
Messrs, Kaufholz and Gloyd,
Messrs, Kaufholz and Gloyd,
Messrs, Melton and Slaght,
Messrs, Gloyd and Melton,
Messrs, Slaight, Melton and Radcliffe,

### FIRE DEPARTMENT FORCE.

· · · · · · · · · · · · · · · · · · ·	SALARI'S PER YEAR.
John A. Bennett, Chief	\$2,000 00
James Dickinson, First Assistant Chief	1,700 00
H. H. Rebbeck, Second Assistant Chief and Supt. of Telegraph	1,600 00
Joseph Speddy, Third Assistant Chief.	1,500 00
A. J. Spencer, Secretary	1,200 00
Thirteen Engineers, each	960 00
Thirteen Stokers, each	744 00
Thirteen Leading Hosemen, each	744 00
Four Captains of Trucks, each	900 00
Four Tillermen, each	744 00
One Harness Maker	720 00
One Line Repairer	720 00
Three Telegraph Operators, each	720 00
Two Supply Drivers, each	720 00
Eighty-three Firemen.	720 00

About two men to each company are appointed to act as Subs. These men are required to make daily reports and only receive pay for the time they serve in the absence of regular firemen.

There are 141 men in all on the Fire Department force.

George Lowe, Capt. of Hook and Ladder Co. No. 3, and T.

J. Bevins, of Engine Co. No. 4, died during the year.

Four men were discharged during the year. One man resigned

Accidents to the men during the year have been comparatively light. Nicholas Clancy, of Engine Co. No. 9, was unfortunate in having a leg broken by the upsetting of a hosecart.

George Eichhorn of Engine Co. No. 5, was incapacitated from duty a short time by receiving a strain while working at a fire.

### APPARATUS.

The apparatus of the Department consists of fourteen steamers, of which five are first-class rotaries, and six are second-class rotaries, of the Silsby manufacture; one second-class piston engine, of the Amoskeag manufacture: two third-class piston engines, manufactured by C. Ahrens & Co.; four hook and ladder trucks, provided with latest improved fire extinguishers, ladders, buckets, etc.; three four-wheeled hose carriages; eighteen two-wheeled hose carts; eleven heaters; three heavy open buggies, for Chief and Assistants; three fuel wagons; one wagon used in the Telegraph Department; one patrol wagon (for sale); one aerial ladder, and six exercise wagons.

### HARNESS.

The former Board having purchased the right to manufacture Sullivan's patent harness, all the companies are now supplied with them, and the experience, so far, in using this style of harness, shows a decided improvement over the common style of harness. These harnesses enable the firemen to hitch up much quicker, besides being more beneficial to horses, as the horses are free from incumbrances in their stalls, saving the harness from being broken.

### HORSES.

There are sixty-eight horses required for actual service in the Department, and the veterinarian branch is wholly under the management of the Chief, who personally attends to the treatment of sick and disabled horses. The question of employing a veterinary surgeon, at a salary of \$300 per year, was discussed by the members of the Board at their meeting in June, but the matter created so much strife among the "horse doctors," each one producing convincing arguments why he should be particularly selected to that important position, that the Board, upon due deliberation and careful reflection, decided not to make an appointment; consequently the Chief, in addition to his duties as Chief, continues to perform the duties of a veterinary for the De-

partment, and his superior knowledge of horses enables him to treat them as successfully, if not more so, than any outside party the Board might select. Two thousand, four hundred and eighty dollars were paid during the year purchasing horses, and the price paid, being on an average less than \$175 per head, was very low for the kind of horses bought.

### HOSE.

io. Feet	Kind.	NAME OF MANUFACTURE.
<b>6,400</b>	Carb'l'zd Rubber.	Gutta Percha and Rubber Manf. Co., New York City.
1,700	Rubber.	Improved Process, by Whitehead Bros., Trenton, N. J.
1,200	Rubber.	White Anchor, by B. F. Goodrich & Co., Akron, Ohio.
3,800	Rubber.	White Shield, by Cleveland Rubber Co.
1,400	Cotton.	Peerless, by Blake Hose Co., Boston, Mass.
450	Cotton.	Eureka, by the Eureka Hose Co., New York.
500	Cotton.	Boyd, by Gutta Percha Co.
1,000	Linen.	Unique, by Gutta Percha ('o.
450	Linen.	N. E. Linen, by Ross, Turner & Co., Boston, Mass.
16,900	i	Total number of feet of Hose in the Department.

The question of procuring a hose that is perfectly reliable for a period of more than two years is still an unsettled one. 3,000 feet of the above mentioned hose were purchased during the year for \$2,437 50. Good reliable hose cannot probably be manufactured for less than about 95c. per foot.

### RESERVOIRS CONSTRUCTED IN 1878.

LOCATIONS.	CONTRACTOR.		PRICE PER BARREL.	
Broadway and Harvard	L. F. Beers	Not Meas'd.	55c	\$ 400 00
Madison and St. Clair	L. F. Beers	810	51c	408 00
Claassen and Reid	H. F. Marshall	651	_55e	358 05
Tioga, near Turney Ave	H. F. Marshall.	H96	60c	480 00
Gordon and Lawn	H. F. Marshall.	801	55c	440 00
Evergreen and Waterman.	I. F Roors	Not Mose'd	. 49e	Not pd, for

The contract for building reservoirs is made for 800 barrels and each contract specifies that only 800 will be paid for and when a reservoir measures less than 800 barrels then there is to be deducted the pro rata.

The Harvard Street reservoir is filled from a spring and on account of its keeping full it is not yet plastered, hence the deduction of \$40 until it shall be finished. Also the one at the corner of Evergreen and Waterman fills itself and the contractor, Mr. Beers, allows the Fire Department to use it until such times as will enable him to complete it.

The table showing the location of all the reservoirs in the city will show about 120 reservoirs and the average price for constructing being S400 each, it is evident the city of Cleveland has buried in earth over S48,000. Until recently the city has paid one dollar per barrel for building reservoirs.

## FIRE ALARM TELEGRAPH.

The annexed report by Supt. II. H. Rebbeck, will show to what extent this branch is used:

STATEMENT OF ALARMS AND CAUSES IN 1878.

	_=									. = -			
CAUNE.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November	December	Total.
Carelessness	7	2	3	1	2	3		1	3	2	4		32
Defective Flues.	3	.3	3	2	2	2		3	1	4	2	. 2	29
Sparks	1	. 1	1	5	9	9	2	3	3	2	. 4		40
Lamp Explosions	1					1	1			1	2	1	7
Explosions of Gasol'e Stoves	3		.1			'					١	٠	4
Ignition of Gas	2	1	1		• • •	1	2	1		2	1		11
Incendiary	1	4	1	4	2	6	1	2	1	1	1	; 3	27
Carelessness with Oil	••••	١	1				:						. 1
Accidental	2	4					3	3	1	1,	1	l 	15
Unknown	4	3	8	6	6	3	1		5	8	1	4	49
Chimneys Burning	· • • •	3	1	3	1	2		1		i	1	1	13
Defective Ovens		, 1		1			1						3
Friction	<b>.</b>			1	· · · ·								1
Leaky Still					1			ا ا					1
Lightning					1		1	ا					1
Spontaneous Combustion					1		!		1				2
Carelessness with Matches.			• • • • •		,	1	1					٠	2
Children playing with m'tchs										1	2		3
Oil on the River				,	• • • • •				1				1
Acid Ignition					. <b>.</b>		1				. <b></b>		1
Defective Furnace										2			2
Defective Grates.										2			2
									,	—.			
Number of actual Fires	24	21	20	23	25	28	13	14	16	26	19	18	247
Alarms for outside the City.	1					3			3				7
False, three of which were malicious	2	2	1	_ 1	1	1			1		1	2	12
Total number of Alarms	27	23	21	 24	26	32	13	14	:20	 26	20	31)	200

### STATEMENT OF LOSSES AND INSURANCE, 1878.

MONTHS.	L088.	INSURANCE.
January	\$ 2,298 00	
February	4,552 24	70,300
March	102,089 85	98,600
April	14,094 87	30,300
May	8,853 00	70,700
June	1,498 75	69,480
July	2,521 00	8,800
August	5,091 65	18.300
September	11,583 75	33,82
October	3,963 00	60,600
November	3,584 40	11,750
December	47,706 94	125,33
Total	\$207,836 95	\$612.88

The records of the Department show that from the year 1864 to 1879 the greatest loss occurred in 1874, with 285 alarms and \$641,506 loss. The least loss occurred in 1877, with 320 alarms and \$25,910 loss.

The most destructive fires during the year occurred in March and December. On the 19th of March at 11:56 p. m., an alarm was sounded from Box 10, and the Atwater Block, a brick building four stories high, located on the corner of Merwin and Superior streets, was discovered in flames. The "Non-Explosive Lamp Co." being located in the building and the machinery being very expensive, the loss on goods, machinery and building amounted to \$87,200.

December the 14th, at 1:50 a. m., H. B. Payne's brick building, occupied by Short & Forman, as book binders and fancy stationers, at 105 and 107. Superior street, was discovered to be on fire. Before an alarm was given the flames had made such progress that it required more than ordinary judgment and

skill to direct, in order to prevent a general conflagration. Ass't Chief Dickinson was found equal to the emergency—Chief Bennett was detained at home on account of sickness—and our efficient firemen kept the fire confined within the walls so that the goods and building were damaged only \$29,180. The stock of goods being of a costly material, the smoke did a large amount of damage to expensive stationery. So dense was the smoke that two kittens and two dogs, boxed for shipment, and placed near the parties who were sleeping in the store, were smothered before they could be got out.

RECEIPTS AND DISBURSEMENTS.

					DISBURSE- MENTS.	RECEIPTS
January's Dish	ursemei	nts and l	teceip	ta	\$ 21,226 15	
February's		**	**		9,308 03	\$ 31.0
March's	••		••		16,963 17	131 2
April's	••	••		********	13,176 31	184 7
May's	**	**			13,793 94	642 5
June's	••	**			11,669 14	128 5
July's	••	•	**		11,648 72	121 0
August's			**		11,093 42	
September's	••		**		10,992 57	560 6
October's		**	**		15,547 44	241 0
November's		••	**		10,644 27	125 9
December's	**	••	**		12,444 18	24 0
Special Taxes (	harged	to the Fi	re De	partment	1,373 10	<u>'</u>
Total Amount	of Disb	ment	×		159,970 44	
Balance on Ha	33,628 73	•				
Balance on Ha		36,865 9				
First Tax Estin	į	98,151 9				
Second Tax Es		58,180 6				

The actual amount disbursed during the year, \$159,970 44, includes \$21,226 15 paid for claims which were approved by the Board in October and November, 1877, and not paid till January, 1878.

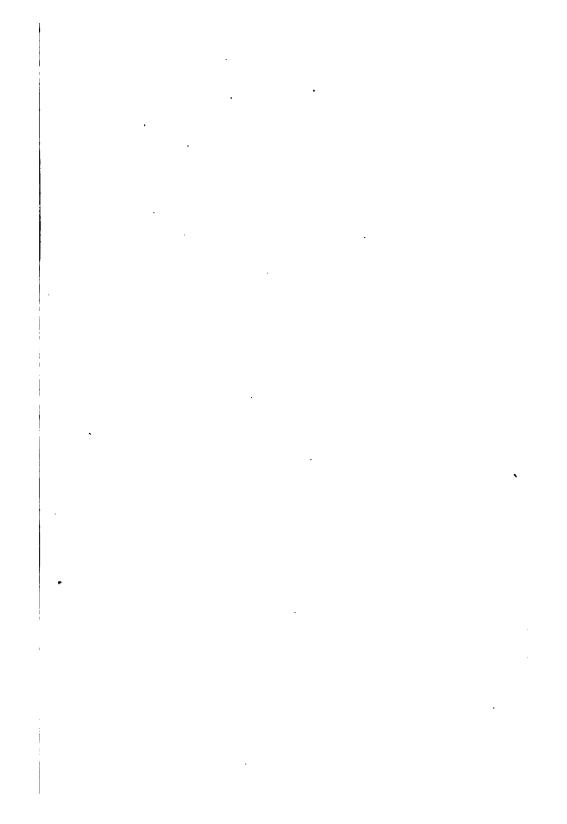
The claims for December being paid in January, leaves a balance on hand credited to the Fire Department Fund, January 1st, 1879, of \$33,628-73.

The following table will show the running expenses of the Department to be \$144,034-56, including the payment of \$1,373-10 special taxes, the purchasing of one new Lotta Engine, manufactured by C. Ahrens & Co., of Cincinnati, O., for \$3,800; one new four-wheeled Hose Carriage, manufactured by the Caswell Improved Coupling Co., of Chicago, for \$475; one new Extension Ladder for \$157-50, and 3,000 feet of cotton and linen hose for \$2,437-50; and constructing six Reservoirs for \$2,086.

This is evidence that the Department has been managed with the strictest economy, and no unnecessary outlays have been made. It is true something might have been saved if the Commissioners had thought it advisable to have reduced the salaries of the officers and men; but when we consider that the Cleveland Fire Department has for its officers, men of long experience, and those who have learned the trade thoroughly, men who are capable, and who manage fires better than any other department in the world, it would be improper for the citizens of Cleveland, Ohio, to ask Chief Bennett, his Assistants and the men in the Department, to risk their lives and give their time for any less than what they now receive.

## ORDERED PAID IN 1878.

; ; - i	MISCEI NEOI SUPPL	J8	OFFICE EXPENSES.	CONTING		RESERV AND REPAI		PIRE A		TOTAL AMOUNT	
1	<b>\$</b> 485	58	\$11 50	\$ 6	00	\$ 19	32	\$ 15	<b>20</b> 73	\$11,483	41
	381	86	ļ	58	47			15	21 76	11,782	51
:	110	27	12 50	17	40	38	70		54 44	10,668	71
1	376	40		. 6	88	927	67	19	38 86 B	13,947	11
•	145	98	1 80	55	24	l I	·	25	24 30	11,757	Ø!
ί.	130	80		172	90	808	00	10	DH 42	11,949	74
11	61	49	4 59	116	92	448	90		4 35	11,089	64
11	398	33	13 20	71	80	57	24	10	12 25	11,009	0
	136	36	15 98	177	80	31	<b>30</b>	44	18 82	15,484	7
1:	· 96	59		! 18	87	170	35	i (	34 24	10,715	7!
	78	53		99	14	19	32	19	95 81	12,361	00
	87	20		53	64	133	85	2	90 08 .	11,855	26
$I_{i}$	\$2,491	39	\$59 57	\$754	58	\$2.654	65	\$1.90	34 16	\$144,034	N



## COMPARISON.

By comparing this Department with the Fire Department in New York we find considerable difference in salaries.

### COMPARISON.

NEW YORK.		('LEVELA	ND.			
V. C. King (Commissioner), Pres	<b>7,500</b>	Wm. H. Radeliffe	(Com.)	Pres't	\$ 0,00	
J. L. Perley, "	5,000	George Gloyd,	**		0,00	
John J. Gorman, "	5,000	Joseph Slaght,	••		0,00	
Carl Jussen, Secretary	3,000	H. L. Melton.	44		0,00	
Chas. DeF. Burns, Ass't Sec'y	1.600	F. G. Kaufholz,			0,00	
E. Savage, Bookkeeper	2,500	A. J. Spencer, Sec	retary		1,20	
W. P. Allen, Clerk.	1,800					
W. H. James, "	1,500					
John R. Shields, Clerk "	1,300					
David Graham, "	1,200					
M. F. Cummings "	1,200					
Jos. Munday. "	1,200					
Frank Watkins, "	1.200					
A. Fuller, Supply Clerk	1,500					
Jas. Cummings, Record Clerk	1,300					
M. J. Phelan, Janitor	1,500					
Bonnoll & Sullivan, Watchmen,	1,600,					
Frank L. Ives, Medical Officer.	1,500					
M. S. Buttles, Ass't " "	1,200			ł		

### BUREAU OF CHIEF OF DEPARTMENT.

NEW YORK.	•	CLEVELAND.	
Eli Bates, Chief	\$4,700	J. A. Bennett, Chief	\$2.000
Chas. O. Shay, Asst	3,000	James Dickinson, 1st Ass	1,700
Gilbert J. Orr, Chief of Batal'n	2,500	H. H. Rebbeck, 2d Asst	1,600
Wm. Rowe, Chief of 1st Battal'n	2,500	Joseph Speddy, 3rd Asst	1,500
Hugh Bonner, " 2d "	2,500		
Robert King " 3d "	2,500		
John W. Miller, " 4th "	2,500		
B. A. Gicquel, "5th "	2,500	I	
E. W. Wilhelm, "6th "	2,500		
S. Campbell, " 7th "	2,500		
J. S. Fisher, "8th"	2,500		
W. W. Rhodes, " 9th "	2,500	'	
Total	\$33.700	Total	\$6,800
BUREAU	033 444	MILLEGRING THE	
NEW YORK.	OF CO	CLEVELAND.	
	\$2,500		
Peter Seary, Inspector	\$2,500		·
Peter Seary, Inspector	\$2,500 1,200		·
Peter Seary, Inspector	\$2,500 1,200 1,200		
Peter Seary, Inspector Surveyor	\$2,500 1,200 1,200 1,500 1,200		
Peter Seary, Inspector Surveyor	\$2,500 1,200 1,200 1,500 1,200	CLEVELAND.	
Peter Seary, Inspector Surveyor	\$2,500 1,200 1,200 1,500 1,200	CLEVELAND.	
Peter Seary, Inspector Surveyor	\$2,500 1,200 1,200 1,500 1,200	CLEVELAND.	
Peter Seary, Inspector Surveyor	\$2,500 1,200 1,200 1,500 1,200 OF FI	CLEVELAND.	
Peter Seary, Inspector	\$2,500 1,200 1,200 1,500 1,200 OF FI	CLEVELAND.	

# SUPERINTENDENT OF HORSES.

	1		<del></del>	
NEW YORK.	·	('LEVELAND.		
T. Elliott, Superintendent Habberlin, Foreman	\$1,500 1,200	John A. Bennett, Chief	Paid as Chief	
Six Stablemen, each	720	•		
EN(	INE C	OMPANIES.		
NEW YORK.		CLEVELAND.	;	
Foreman	\$ 1,500	Engineers	\$ 960	
Ass't Foreman	1,300	Stokers and Hosemen, each	744	
Engineers of Steamers	1,300	Firemen, each	720	
Stokers, each	1,250	•		
Firemen, each	1,200		1	
Privates, each	800			
HOOK AN	D LADI	DER COMPANIES.		
NEW YORK.		('LEVELAND.		
Foreman	\$ 1,500	Captain	\$ 980	
Ass't Foreman	1,300	Tillerman	744	
Firemen, each	1,200	Firemen, each	720	
Privates, each	800			
FIRE A	LARM	TELEGRAPH.		
			1	
NEW YORK.		('LEVELAND.		
John Emerick, Supt	\$ 2,500	H. H. Rebbeck, Supt., paid as 2d	A. Ch'f	
J. E. Smith, Chief Operator	1,640	Geo. E. Bonnett, Operator	\$ 720	
Three Operators, each	1,880	Rothgarry, "	720	
Four Ass't Operators, each	1,200	Barlow. "	720	
Batteryman	1,000	Hawley, Line Repairer	720	
Ass't Batteryman	800			
Six Line Rapairers, each	800			

### REPAIR SHOPS.

NEW YORK.		CLEVELAND.	
Wm. Lamb, Inspector	\$2,000	John Blanvelt, Harness Maker	\$720
Store Keeper	1,500		
Foreman	1,500		
Two Clerks, each	1,200		
			•

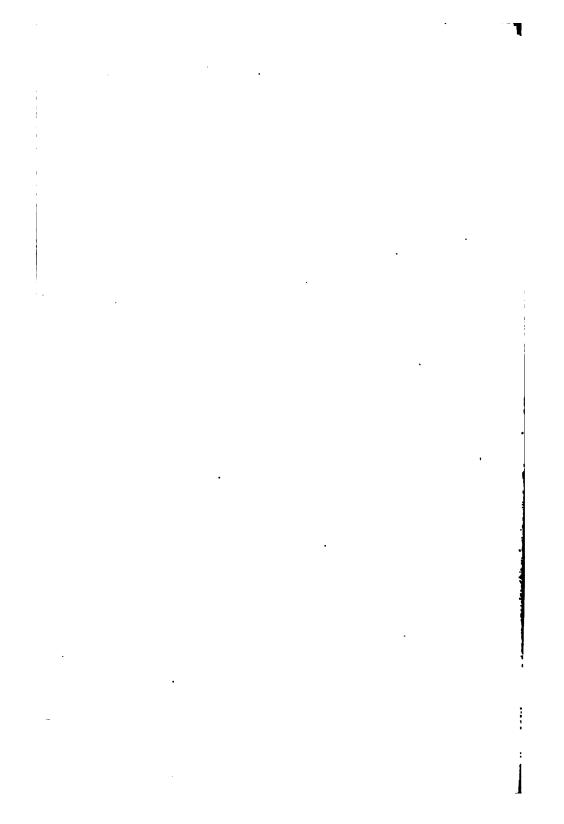
rorcinan	!
Two Clerks, each 1,200	İ
SUMMARY S	STATEMENT.
- •	,
NEW YORK CITY HAS	CLEVELAND CITY HAS
Forty-three Engine Companies with 12 Men in each Company.	Thirteen Engine Companies with 8 Men in each Company.
Eighteen Hook and Ladder Companies, 10 Men in each Company.	Four Hook and Ladder Companies, 9 Men in H. & L. Co. No. 1, 5 Men in H. & L. Co. Nos. 2, 3 and 4.
Four Chemical Engine Companies, 4 Men in each Company.	IA. G. D. C. A. C. A. A. B. B. B. B. B. B. B. B. B. B. B. B. B.

The above comparison is made to show that the city of Cleveland does not pay any too much to those men who risk their lives to protect the property, and it is an acknowledged fact that, owing to the efficiency of our Fire Department, Cleveland has suffered as small losses by fire in comparison as any other city in the United States.

It will be seen by the above comparison that New York City pays \$17,500 yearly to three Fire Commissioners, while it costs the city of Cleveland nothing for five good business men, who constitute the Board in this city. While New York may possibly be a little extravagant in paying large salaries, the tax payers of the city of Cleveland can have no just reason to complain, especially on account of enormous salaries paid to her Fire Commissioners.

During the year the members of the Board give a considerable portion of their time in looking after the interests of the Fire Department, and it would seem no more than just that they should receive a reasonable compensation for their services.

When a Board is organized, as in the present case, with men of ability, it is essential to the taxpayers to continue these men in office as long as they are willing to serve, as its costs too much to make changes. It takes some time to learn economy, without impairing the efficiency of the Department.



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• . • 

#### COMPARATIVE LOSSES AND FIRES SINCE APRIL 1, 1864.

			DATE	YEAR.	PIRES.	Lorres.
То	Apri	l	1	1865	68	\$261,841 48
•	••	•	1	1866	56	173,990 62
**	**	• · · · · · · · · · · · · · · · · · · ·	1	1867	111	206,942 82
**		• • • • • • • • • • • • • • • • • • • •	1	1868	144	300,441 76
	••		1	1889	149	196,984 19
		•••••	1	1870	143	378,635 61
"	••	***************************************	1	1871	149	300,453 71
		*******	1	1872	195	153,198 53
To	Dece	mber	31 .	1872	144	309,725 72
**		• •	31	1873	157	348,410 64
	•		31	1874	285	641,506 35
			31	1875	284	137,122 66
	••		31	1876	274	253,558 75
	•		31	1877	320	25,910 50
••			31	1878	266	207,836 95
_			_			

### COMPARATIVE EXPENSES SINCE 1874.

YEAR.	No. of Min. Men.	No. of Firemen.	No. of Houses.	Disbursed.	Running Expenses
1874	2	116	10	\$161,991 64	\$138.287 39
1875	54	98	11	170,976 59	140,705 71
1876	·	143	11	149,894 72	136,153 N7
1877		143	13	156,019 12	147,340 00
1877, Unpaid Accounts				17,480 88	
1878		143	13	159,970 44	144,034 56

The running expenses are determined as nearly as possible by deducting from the amount disbursed the expense of building new houses, purchasing real estate, the paying of former claims.—as in 1874 Engine House No. 4 was constructed at a cost of \$20,000, while in 1877 Engine Houses Nos. 12 and 13 were built for \$6,600 each.

### CITY DOCUMENTS.

# SOME ITEMS OF EXPENSES IN 1874.

Building Engine House No. 4	<b>\$20,000</b> 00
Real Estate	789 25
Extinguisher.	180 00
2,000 feet of Hose	2,125 00
Building one Reservoir	651 00
Purchasing of Telegraph Poles	583 (0)
Purchasing of Telegraph Instruments	2,755 00
SOME OF THE EXPENSES OF 1875 Were for Bills contracted in 1874 and paid in 1875.	
Reservoirs in Eighteenth Ward and one at Cedar and Stark avenues.	<b>B</b> 3,161 01
Reservoirs on Petric street	451 (0)
Lots in the Seventeenth and Eighteenth Wards	9,000 (0)
Oats and Coal	2,053 34
Amoskeag Steam Fire Fngine	4.500 00
Estimate on Engine House No 11	9,406 39
SOME OF THE EXPENSES IN 1876.	<del></del>
Real Estate	3 2,267 66
Estimates on Engine House No. 11	2,658 61
Hose bought in 1875	7,750 00
Patrol Wagon	-450 00
Three Automatic Relief Valves	<b>≟5</b> 0 00
Printing Annual Report	<b>≈62</b> 50
Sewerage	214 58
SOME OF THE EXPENSES IN 1877.	
No also Area and Develop Warren 19 and 10	
Erecting two new Engine Houses, 12 and 13	
Purchasing one Silsby third-class Engine	
Purchasing one Chris Ahrens third-class engine	4,200 00
Purchasing one Aerial Ladder.	1,200 00
Exchanging Engines and set of Wheels	750 00
Right to manufacture Patent Harness	450 00
Laying Cable across Cuyahoga River	<b>31</b> 3 00
Two Hose Carriages.	1.210 00

#### SOME OF THE EXPENSES OF 1878.

Claims approved in October and November, 1877	\$21,226	15
Special taxes charged to the Fire Department Fund		
Third-class Lotta Engine built by C. Ahrens & Co	3,800	00
One Hose Carriage bought of Caswell Improved Coupling Co	475	00
One Bangor Extension Ladder	157	50
3,000 feet of Cotton, Linen and Rubber Hose	2,437	50
Constructing six Reservoirs		
Horses.	2,480	00

In 1876 and 1877 several of the engine houses were repaired at considerable expense by enlarging, changing stalls, painting, &c.; also in 1876 the Commissioners fitted up in an attractive manner room No. 13 in the City Hall, and in 1878 room No. 11 was painted, grained, and frescoed, so that now strangers visiting our city can be pleasantly entertained.

ESTIMATED VALUE OF HOUSES AND LOTS.

NO.	P HOU	ers.	FEET FRONT.	FEET DEEP.	OF LOT.	VALUE OF HOUSE.	TOTAL VALUE.
Engine	House	1	66	161	\$36,000 00	\$20,000 00	<b>\$</b> 56,000 00
••	**	2	413/4	80	12,300 00	8,000 00	20,300 O
**	**	3	22 11/2	$100^{-5}_{12}$	2,200 00	5,000 00	7,200 00
4.	**	4	60	10172	6,000 00	15,000 00	21,000 00
••	**	5.	40	$137_{12}^{2}$	2,400 00	2,000 00	4,400 00
••	**	6	40	$138_{12}^{6}$	4,000 00	8,000 00	12,000 00
••		7.	42	60	2,100 00	6,000 00	8,100 00
••		8.	50	250	3,000 00	5,000 00	8,000 00
••	••	9	70 .	163,5	5,250 00	12,000 00	17.250 O
••	••	10	100	200	5,000 00	12,000 00	17,000 00
	4.	11	80	100	1,200 00	10,000 00	11,200 00
••	**	12	42	125	1.680 00	8,000-00	9,680 O
**	**	<b>13</b> ¹	50	150	2,250 00	4,000-00	10,250 (0

ESTIMATED VALUE OF ENGINES.

PRES.	cost.	WHEN PUT IN SERV- ICE.	use.	AT WHAT	ENGINE	N OF	LOCATION	
\$3,00	\$6,000	1868	0	by Silsby &	manuf'd	o. 1.	House N	At Eng.
4,00	4,500	1872	Man'f Co.	Amosk	**	2,	, ee	••
3.00	6,000	1871	· · · · · ·	Silaby	••	3,	• •	••
4,50	5.500	1873	••	**	••	4,	••	**
4.90	4,200	1877	& Co	C. Ahr		5,	••	**
4,50	5,500	1873	0	Silsby &	"	6.		
3,00	5,000	1874		**		7,	••	
3,80	3,800	1878	& Co	C. Ahr	••	8,	**	**
3,00	8,000	1863	0	Silsby .	••	9,	**	••
2,50	3,500	1863	(extra)		**	9,	•	**
2,50	3,250	1862		**	**	10,	44	**
3,50	4,700	1877		**	**	11,	**	**
3,75	3.750	1877		••	**	12,	**	••
3,50	4,500	1867		"	**	13,		

Steamer No. 1— Located at the corner of St. Clair and Academy streets. Fire Department Headquarters, is a first-class rotary engine, built by the Silsby Manufacturing Co. of Seneca Falls, N. Y., was placed in service in October, 1868, and was known as the "Amos Townsend." It being ten years old. would indicate that a new one might with propriety be purchased in its stead.

Steamer No. 2—Located on Champlain street, is a secondclass piston engine, built by the Amoskeag Manufacturing Co., Manchester, N. H.; was placed in service January, 1872, and was known as the "Charles Otis." It is still in good repair and considered a good engine.

Steamer No. 3—Located on Huntington street, near Garden is a first-class rotary engine, built by the Silsby Manufacturing Co., was placed in service in November, 1871, and was known as the "F. W. Pelton."

Steamer No. 4—Located at the corner of Church and State streets, is a first-class rotary engine, built by the Silsby Co., was placed in service in March, 1873, and was known as the "John Martin."

Steamer No. 5—Located on Phelps street, near St. Clair, is a third-class piston, built by C. Ahrens & Co., Cincinnati, O., and placed in service in May, 1877.

Steamer No. 6—Located at the corner of Lorain and Brainard streets, is a second-class rotary, built by the Silsby Manufacturing Co.; was placed in service March, 1873, at Engine House No. 2, afterwards transferred to 6's house, and was known as the "Silas Merchant."

Steamer No. 7—Located on Forest street, near Garden, is a second-class rotary, built by the Silsby Manufacturing Co.; was placed in service in April, 1874, at 5's house, and was known as the "N. P. Payne."

Steamer No. 8.—Located on Scranton avenue, is a third-class piston, built by C. Ahrens & Co., Cincinnati, O., was placed in service in October, 1878.

Steamer No. 9—Located on Willson avenue, is a second-class rotary, built by the Silsby Manufacturing Co.; went into service May, 1863, at Engine House No. 4, afterwards transferred to Engine House No. 6, then to No. 11, and then to its present location.

Steamer No. 10—Located on Doan street, is a second-class rotary engine, built by the Silsby Manfacturing Co.; placed in service November, 1862, at No. 1's house, then went to 5's house, then to 9's house, and then to its present place, and it is known as the "I. U. Masters."

Steamer No. 11—Located at the corner of Sawyer and Home streets, Eighteenth ward, is a second-class rotary, built by the Silsby Manufacturing Co., and exchanged with that company in 1877 for an old engine known as the "George B. Senter." This engine had been used by the city for some time as an extra engine.

Steamer No. 12—Located on Weaverly avenue, near Lorain street, is a third-class rotary, built by the Silsby Manufacturing Co., and placed in service in May, 1877.

Steamer No. 13—Located on Broadway, near Petrie street, is a first-class rotary, built by the Silsby Manufacturing Co., and placed in service September, 1867, and was known as the "James Hill."

Extra Eugine—Is a second-class rotary, built by the Silsby Manufacturing Co., and placed in service January, 1873, and known as the "Wm. Meyer."

HOOK AND LADDER TRUCKS, ESTIMATED VALUE.

NUX	инек	•	WH	ERE L	OCA1	ed.	MANUFACTURER'S NAME	WHEN PUT IN SERV- ICE.	EST.
Truc	k No.	1,	Eng.	House	No.	1	Wm. Gabriel & Sons.	1873	\$2,000
	••	2,		••	••	4,	E. B. Leverick.	1872	2,00
	**	3,		••	**	9,	C. E. Hartshorn	1873	2,000
••	••	4,		••	**	11,	Pine & Hartshorne	1855	2.000
Aerial k	adder	r '		••	**	1,	M. Scott Uda	1877	1.200

### ESTIMATED VALUE OF PROPERTY IN FIRE DEPARTMENT USE.

· <u></u>	
3 four-wheeled hose carriages	\$ 1,800
18 two-wheeled hose carts	3,600
11 heaters	1,100
1 protection wagon (for sale)	400
3 open buggies	150
3 fuel wagons	150
1 general delivery	40
1 telegraph wagon	10
21 double harness, at \$40	840
24 single harness, at \$20.	480
26 stoves	650
70 horses	10,500
75 horse blankets, (heavy)	400
4 buffalo robes for Chief and Assistants	36
40 whips	40
25 hay forks	25
12 seives	6
26 shovels	26
12 saddles	24
150 bedsteads	1,000
150 hair mattresses	1,000
150 husk mattresses	200
600 bed blankets	1,500
150 counterpanes	150
450 sheets	200
300 pillow slips	50
300 pillows	400
100 towels	25
13 tables	100
26 oil cans	13
17 sprinklers.	. 17
13 jack screws	130
17 hatchets	8
1 set of expanders and wrenches	70
17 wheelbarrows	20

### ESTIMATED VALUE OF PROPERTY-CONTINUED.

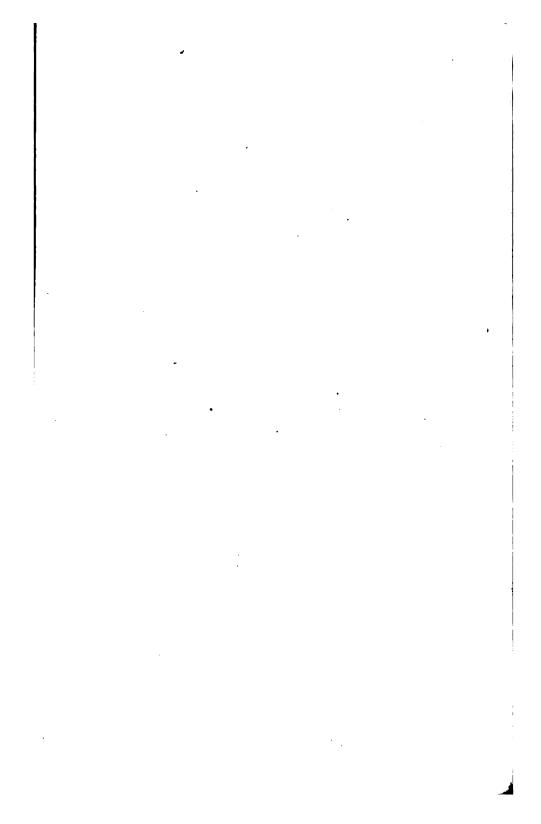
17 baskets	17
17 step ladders	45
17,000 feet of hose	15,600
600 feet of garden hose	70
	\$ 15,977
	<del></del>
TELEGRAPH DEPARTMENT.	
17 instruments	
14 instruments	
12 instruments (police)	
200 Cells grove batteries and stands	
224 Cells colland batteries and stands	1
1 register	50
3 galvanometers	15
157 alarm boxes	19,625
160 miles fire alarm line	8,000
35 miles talking line	1,750
35 miles talking line (police)	1,750
	\$ 33,041
· <del>2</del>	<del></del>
VALUE OF RESERVOIRS.	
120 reservoirs	\$48,000

#### RECAPITULATION OF PROPERTY VALUE.

Value	e of engine houses and lots	<b>202,98</b> 0
**	" engines	48,750
**	" hook and ladder trucks and aerial ladder	9,200
**	" miscellaneous articles	41,192
	" 120 reservoirs	48,000
**	" telegraph line instruments, etc	83,041
т	otal value of property (estimated)	\$383,163

An accurate inventory of all the articles in each engine house would not only consume time to obtain, but would hardly pay expenses to have published in this Report. There are quite a number of small articles used in the Department not included in the estimated valuation, such as tools, a pound or so of thread, one-half pound of beeswax, three or four stifle boots, halters, wrenches, crow-bars, shovels, coal-hods, water pails, brooms, sponges, chairs, etc., etc.

It cost the city of Cleveland \$262 for printing extra copies of the Annual Report of the Fire Department for 1875. It contains a great deal of information, but the citizens, somehow, don't care to be taxed for such information, and very few will take the time to examine these reports when printed.



## Fire Alarm Telegraph.

### SUPERINTENDENT'S REPORT.

To John A. Bennett, Chief:

Sir:—In accordance with the rules of the Fire Department, I herewith submit my Annual Report in detail for the telegraph branch of the Department for 1878.

The lines and instruments have all worked well during the year with the exception of being obstructed sometimes by so many trees in the streets, which come in collision with the wires in the summer months, and property owners object to having them trimmed. I would suggest the passage of an ordinance regulating the trimming of trees so that the line will not be obstructed. Unless some arrangements are made soon, serious damage may result therefrom.

One new street-box has been added during the year, making 157 boxes in all.

Two receiving instruments have been placed in station houses for the benefit of the Police Department, one in the Seventh Precinct Station, and one in the Eighth Precinct Station.

New poles have been set on St. Clair street, and new wire will be put on in the spring and the old wire, which is now on the tops of houses, unreliable, will be taken down. I would suggest the same be done in the business part of the city, as some of the wire on house tops is unreliable in case of a storm of sleet.

I would also suggest that the City Council pass an ordinance causing parties who remove buildings from one point to another, and when said buildings being removed necessitate the changing of the line, that said parties who are benefited thereby shall defray all expenses incurred by the changing of the wires instead of the city furnishing men to make the changes.

I would also renew my former suggestion in regard to striking some large bell in the city by an electro-mechanical apparatus, so as to give a better outside alarm to the public.

The police lines still continue to give entire satisfaction and work well, as there have been 8,964 messages sent over them, besides a large number not recorded.

Some changes have been made on the line during the year. The wires on the old station house, Euclid avenue, have been changed to the new station house at the corner of Euclid and Wilson avenues, and the wires have been removed from the house tops on Oregon street and placed on new poles on St. Clair street.

The setting of poles, the changing of wires, cutting wires, and all general outside repairs have been done by members of the Fire Department, the Police Department paying expenses for repairs on their lines.

The annexed tables will show the number of alarms given for each hour of the day, each day of the week, day of the month, number of box, and location of boxes.

Respectfully submitted by
H. H. REBBECK,
Supt. of Fire Alarm Telegraph.

TABLE SHOWING THE NUMBER OF ALARMS FOR EACH HOUR OF THE DAY.

					ž	MORNING	NO.					-	ing.			•		V	TR	A FTERNOON.	ż					noon roon	
DATE-1878.	-	91	•	•	 - <b>6</b>	. •		o o	•	9	=	22	ToT mom	-	94	••	<b>+</b>	<b></b>	•	t-o	<b>x</b>	•	2	=	22	toT H9JJA	.fatoT
lanuary	69	_		<del>:</del>	:	*	35	:	co	_		, A1	11	_ :	_	<u>:</u>	:_	-	-	=	က	-	:	_	-	2	52
February	:	-					:	-	-	- ;	_		ţ.	<b></b>	-	:	=	Ī	+	61	-	က		_	_	17	*
March	9	_		- :	:	-	-	60	:	_	:	-	14	<b>-</b>	24	<u>:</u>	_ :_	_ <u>:</u>	_		-	_	_	က		10	<b>₹</b>
April	25	3,5	35	35	_	:	_	:	-	-	23	_	15	-	•3 -	93		-	. :_		93	-	- :	-:	35	15	- <b>8</b> 
Мау.	*	_	:	:	:		_	-	-	- CO	_	31	7	25		_	10		<u>:</u>	_:_	93	:	23	25	-	16	- 8 
June.	-	_		_:	_	_	<b>93</b>	:	_	33	_	_	Π	•×	<del></del>	_	63	<u>:</u>		33	*	တ	co	_	જ	81	88
July	23	:	- :	•	:	:			:	:	-	_ co	•	93	33	_	<b>03</b>	:	_:		_	:	_	:	_ :	<b>3</b>	22
August	_	-	:	•	:	:	:		23	ಣ	33	•	6	<u>:</u>	÷	<u>:</u>			_:	_	-		_	:	-	9	15
September	-	_	60	:	:	:	63	:	က	:	:	_	=		_ :	<b>~</b>	:	_:	:	24	-	<b>}-</b>	:	63	31	11	<b>33</b>
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November		-	:	:	:	•	65	•	_	ī	-	;	8	- 	<u>:</u> _	_		65		<b>20</b>	-	93	-	:		7	- <b>&amp;</b> 
December	-	:	_	_	:	:	-	:	63	60	:	_	6	<u>:</u>	<u>:</u>		<u>:</u>	-	-	4	:	93	21	:	:	=	系 
Total	22	23	2	-	60	•	=	•	2	=	2	=	130	23	23	82	23	<b>∞</b>	=	8	20	88	8	=	23	15	8

TABLE SHOWING THE NUMBER OF ALARMS FOR EACH DAY OF THE WEEK	WING	THE	TWBE	R OF A	LARMS	FOR	EACH D	AY OF	THE	FEEK.	1	-	
DAYS.	January.	February.	Магер.	April.	Мау.	-aune	July.	Апguяt.	September.	October.	Иочетрег.	Бесешрет.	.LatoT.
Sunday	ಣ	9	<b>31</b>	1-	oc -	က	24	-		:	21	-	ಣ
Monday	က	ю	24	æ	re -	æ	æ	æ	<b>30</b>	<b>-</b>	ಣ	61	*
Tuesday.	æ	က	æ	t-	33	ಞ	:	-	t-	•	:	rc.	4
Wednesday	ಣ	63	31	-	က	*0	80	:	:	=	21	4	æ
Thursday	9		•	10	4	-	21	<b>→</b>	-	<b>x</b>	r.	31	4
Friday	4	4	ee	*	ee 	t-	2	æ	ĸ	ผ	61	-	*
Saturday	-	*	<b>e</b>	<b>cc</b>	<b>t-</b>	9		80	<b>1</b> -		œ	ıç	4
Total	22	র	**	8	8	88	13	22	88	#	8	S	क्ष

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Вохев.				341•	348	345	346	347	123	£3.	2	 	428	£	181	434	:	
auri i A	:	- :	35	-	33	:	- :-	- <u>;</u> -	95		ei.	-	- <u>`</u> :		- [	-:	-:-	2
Вохев.	241	38	28	245	246	252	313	313	314	315	316	317	318	319	<b>25</b>	 88	<b>3</b>	
emr'[A	, ro	25	_	_ <b>oc</b>				_ ^₹	_ 	*	'n	<del>:</del>	Ñ.	<b>x</b>	:		35	3
Вохев.	164	166	22	13	212	218	214	215	216	217	218	<b>58</b>	283			 2002	200	
Box &	187	188 1	130 1	142	1431	145 1	146 3	147	148 1	140	161	15 1	158	154 5	1561	162	168 5	3
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### CLEVELAND FIRE ALARM.

### LOCATION OF BOXES, ETC.

No. of Box.	Location.	Engine	Hook and Ladder	Fire
2	New City Hail.	1, 2, 3	. 1	A
3	Ontario, corner Lake street.	1, 2,	1	A
4	Engine House No. 1.	1, 3,	1	A
5	Water, corner Lake street	1, 2, 3	. 1	A
5	Water, corner St. Clair.	1, 2, 4	1, 2	A
6	C. C. C. & I. Round House	1, 2, 4	1, 2	A
7	C. & P. Freight House	1, 2, 4	1, 2	A
8	River, corner Light House	1, 2, 4	1, 2	A
9	River, corner St. Clair,	1, 2, 4	1, 2	A
10	Superior, corner East River	1, 2, 4	1, 2	A
1 2	Columbus, corner Centre	1. 2, 6	1, 2	A
1 2	Columbus, corner Voltair	1, 2, 6	1, 2	
1 2	Merwin, corner British	1, 2, 6	1, 2	
1 3	No. 13 Carter, near Rolling Mill	2, 6, 8	1	
1 4	No. 30 Canal, near Michigan	1, 2, 4	1, 2	A
15	Superior, corner Water	1, 2, 3	1, 2	A
1 6	Superior, Corner Bank	1, 2, 8	1, 2	A
18	Superior, corner Seneca	1, 2, 3	1, 2	A
19	Central police Station	1, 2, 3	1	A
2 1	Engine House No. 2.	1, 2, 3	1, 2	A
2 1	Euclid avenue, corner Sheriff	1, 2, 3	1, 2	A
23	Scranton avenue, cor. Carter	1, 2, 8	1	
2 4	Central Way, cor. Ohio	1, 2, 3	1	
2 5	Central Market House	1, 2, 3	1	A
2 6	Erie, corner Eagle	2, 8	1	
27	Erie, corner Prospect	2, 3	1	A
			'	

### LOCATION OF BOXES, ETC.-CONTINUED.

No. of Box.	Location.	Engine	Hook and Ladder	Fire
28	Erie, corner St. Clair	1, 2, 3	1	
29	Walnut, corner Murison	2, 3	1	
3 1	Commercial, corner Canal	2, 8, 8	1	
3 2	Hill, between Commercial and Cross	2, 8	1 ,	
3 4	Erie, corner Woodland Avenue	2, 3, 9	1, 3	
3 5	Engine House No. 3	2, 3	1	
3 6	Perry, near Prospect	2, 3	1	
3 7	Perry, Scovill avenue	2, 3	1	
3 8	Perry, near Broadway	2, 3	1	
3 9	Woodland avenue, corner Harmon	2, 3	1, 3	A
4 1	Scranton avenue, near A. & G. W. Depot	1, 2	1	
4 2	Railroad crossing, foot of Wille street	8, 6	2	
4 3	Railroad crossing, foot of Mill street	8, 6	2	
4 5	Police Station on Barber avenue	6, 8	2	
4 6	Vega avenue, corner Hitchcock	6, 8	2	
4 7	Mill, corner Seymour avenue	6, 8	2	
4.8	Scranton avenue, corner Rowley		2	'
4 9	City Infirmary	6, 8	. 2	
6 1	Engine House No. 8, Scranton avenue	6, 8	2	i
5 2	Literary, corner Professor	6, 8	2	
5 3	Jennings avenue, corner Crown	6, 8	2	
5 4	Starkweather avenue, corner Merchants avenue	6, 8	2	
5 6	Central Way, corner Mahoning	8, 13	1	1
5 7	Central Way, corner Railroad street	8, 13	. 1	
5.8	University, corner Jefferson	6, 8	. 2	
6 1	Corner Broadway and Irving	3, 8, 13	3	
6 2	Standard Oil Refinery, Broadway	3, 8, 18	3	
63	Standard Oil Company's cooper shops	3, 8, 18	3	
6 4	Independence, corner Holley	8, 13	1 <b>3</b> ·	
6 5	Broadway, corner Forest	7, 13	. 8	
6 7	Trumbull, near Forest		1 3	
6 8	Broadway, corner Petrie		4	
7 1	Garden, between Perry and Greenwood		3	
	1		1	

### LOCATION OF BOXES, ETC.—CONTINUED.

No. of Box.	Location.	Eng		Hook and Ladder	Fire
7 2	Scovill avenue, corner Henry	3,	7	3	
7 3	Woodland avenue, corner Irving	3,	7	3	
7.4	Croton, corner Jackson.	3,	7	3	
7 5	Croton, corner Forest	7,	9	3	
76	Forest, near Paper Mill.	7, 1	8	8,	
8 1	Scovill avenue, corner Maple	3,	7	8	
8 2	Police Station on Forest	7,	<b>)</b>	3	
8 3	Woodland Avenue, corner Case	7,	9 '	3	
N 4	Scovill avenue, corner Kennard	7, 1	9 ;	3	
8.5	Engine House No. 9.	7, 9	9	3	
8 6	Willson avenue, corner Sawtell extension	9, 1	8 .	3	
9 1	Sterling avenue, near Garden	3,	7	3	
9 2	Sterling, corner Prospect.	8, 1	ĭ	3	
9 3	Cedar avenue, corner Blair	3, 7	i '	3	
9 4	Engine House No. 7.	3, 7	7	3	
9 5	Prospect, corner Case avenue.	3, 7	i I	8	
96	Euclid avenue, corner Willson avenue	7, 9	)	3	
121	Whiskey Island	1, 4	. ¦	2	
123	Center, corner Hemlock.	1, 4	ŀ	2	
124	Main, corner Sycamore	1, 4	ı ¦	2 '	
125	Center, corner Winslow	2, 4		2	
1 2 6	Main, corner Washington	4, 6	3	2	
127	Police Station, Detroit	4, 6	<b>.</b>	2	A
128	Malt House, West River street.	4, 6	•	2	
1 2 9	Brock, corner Lorain	4, 6	,	2	
131	Oil Refinery, foot Abbey.	6, 8	,	2	
1 3 2	Engine House No. 6	4, 6	;	ż	
134	Pearl, corner Franklin	4, 6	,	2 .	
1 3 5	Engine House No. 4.	4, 6	;	2	
136	Franklin, corner Kentucky	4, 6	1	2	
137	Bridge, corner Fulton	4, 6	, ,	2	
138	York, corner Jay.	4, 6	, 1	2	
1 3 9	Jersey, corner Chatham	4, 6	,	2	

### LOCATION OF BOXES, ETC.—CONTINUED.

	ZOZION OF BOXES, BIC CONTINUED.		
No. of Box.	Location.	Engine	Hook and Ladder.
142	Detroit, corner Taylor	4, 12	2
143	Harbor, corner Woodbine	4, 12	2
1 4 5	Randall, corner Lorain	6, 12	2
146	Willie, corner Chatham	6, 12	2
1 + 7	Bailey, corner Devine	6, 12	2
1 4 8	Burton, corner Buckeye	6, 12	2
1 4 9	Harbor, corner Cook	6, 12	2
151	Herman, corner Weddell	4, 12	2
152	Washington, corner St. Paul	4, 12	2
153	Franklin, corner Dare	4, 12	
154	Lorain, corner Liberty	6, 12	2
156	Junction, corner Ravine	6. 12	2
162	Detroit, corner Gordon avenue	4, 12	2
163	Bridge, corner Courtland	4, 12	2
164	Lorain, corner Waverly avenue	6, 12	2
165	Lorain, corner Chestnut Ridge street	6. 12	. 2
172	Clark avenue, corner Pleasant	6, 12	2
173	Clark avenue, corner Bergen.	6, 12	2
212	Canfield, corner Davenport	1, 5	1
213	St. Clair, between Canfield and Dodge	1, 5	1
214	Chestnut, corner Dodge	2, 3	1
215	St. Clair, corner Ross	1, 3, 5	1
216	Police Station, Oregon street.	1, 3, 5	1
217	St. Clair, corner Alabama	1. 3. 5	1
218	L. S. & M. S. Machine Shops	1, 3, 5	1
232	C. & P. Machine Shops	1, 3, 5	1
2 3 4	Engine House No. 5	1, 5	1
235	Sterling avenue, corner Payne	3, 5	1
236	Payne avenue, near Wason	5, 7	1
237	Union Steel Screw Works	5, 7	1
2 4 1	Corner Payne and Willson avenues	5, 7	1
2 4 2	Superior, corner Case avenue	1, 5	ı
243	Lake, corner Wason	1, 5	1
245	St. Clair, corner Belden avenue	1, 5	1
			-

### LOCATION OF BOXES, ETC.—CONTINUED.

No. Box.	Location.	Eng	rine	Hook & Ladder
2 4 6	St. Clair, corner Willson avenue	1,	5	1
252	Huntington, corner Superior.	2,	3	1
3 1 2	Euclid avenue, corner Dunham	7,	10	3
3 1 3	Euclid avenue, corner Giddings	7,	10	3
3 1 4	Madison avenue, corner of Euclid	7,	10	3
8 1 5	Euclid avenue, corner of Bolton	7.	10	3
816	Engine House No. 10	7,	10	3
3 1 7	Euclid avenue, corner Walton street	7,	10	3
3 1 8	Hough, corner of Ansel avenue	7,	10	3
3 1 9	Hough evenue, corner of Crawford	7,	10	3
8 2 1	Scovill avenue, corner of Slater	7,	9	3
3 2 3	Woodland avenue, corner of Willicut	7,	9	3
3 2 4	Platt street, corner of Carr	7,	9	3
3 2 5	Workhouse, Woodland avenue	7,	9	3
3 2 5	Hazard Hame Works	7,	9	3
326	Hough avenue, corner of Madison	7,	10	3
3 2 7	Madison avenue, corner Superior	5,	10	3
3 4 1	Garden, corner Willson avenue	7,	9	3
3 4 2	Garden street, C. & P. crossing	7,	9 :	8
8 4 3	Garden, corner Madison	7,	9	3
3 4 5	Cedar avenue, corner Lincoln	7,	10	3
8 4 6	Cedar avenue, corner Logan street	7,	10	3
3 4 7	Cedar avenue, corner Fairmount street	7.	10	8
421	Engine House No. 11	11,	13	4
4 2 3	Corner Broadway and Harvard	11,	13	4
424	Miles avenue, corner Atwater street	11,	13	4
4 2 5	Stone, Chisholm & Jones' mills	11,	13	4
426	Union street, near Union Iron Works	11,	13 :	4
427	Woodland Hills' avenue and Hull.	11,	13 <sup>†</sup>	4
4 3 1	Insane Asylum	11,	18	4
4 3 4	Corner Broadway and Fullerton street	11,	13	4
	<u> </u>			

DIRECTIONS. The number of the Box will be sounded from the Engine Houses as follows: If the alarm comes from Box 5, the bells and gongs will strike five; if from 25, they will strike two, five; if from 121, one, two, one, etc. Keys to the several Boxes are in possession of responsible parties located nearest each box, and the members of the Police also have keys.

### RESERVOIRS CONNECTED WITH THREE-INCH STOP-COCKS.

Kentucky street, corner of Clinton. |Ohio st., bet. Broadway and Woodl'd. Duane street, corner of Clinton. State street, south of Detroit. State street, corner of Ann. Pearl street, corner of Detroit. Pearl street, corner of Lorain. Pearl street, corner of Willey. Columbus street, corner of Abbey. Water street, north of St. Clair. Willson Avenue, cor. Woodland. Bank street, north of Superior. Ontario street, south of St. Clair. Bond street, north of Superior. Erie street, opposite Parkman. Mairson street, south of Hamilton. Brownell street, south of Euclid. Huntington st., south of Prospect. Liberty street, east of Broadway. Jackson street, south of Woodland, Lake street, corner of Wood. St. Clair street, east of Eric. Superior street, corner of Union. Superior st., west of Pub. Square. Euclid avenue, east of Eric. Prospect street, east of Ontario. Prospect street, west of Perry. Huron street, east of Erie. Cleveland ave., corner of 3d Alley.

Ohio street, west of Brownell. Cedar st., bet. Perry st. & Sterling av. Fulton street, corner of Lorain. Hanover st., corner of Washingt'n. Cedar st., corner of Sterling ave. Harman street, south of Garden. Chatham street, corner of Penn. Scovill ave., corner of Forest, Forest street, corner of Burwell. Perry street, corner of Orange. Mayflower street, south of Orange. Franklin street, corner of Liberty. Case ave., corner of Superior. Lorain street, west of Jersey. Scovill ave., corner of Laurel. Superior street, cor. Sterling. Ocean street, corner of Woodland. Maple Grove, corner of Woodland. Bridge street, east of Fulton. Harbor street, corner of Bridge. Bridge street, corner of Liberty. Chatham street, corner of York. Belmont street, north of Croton. Bridge street, west of York. Columbus street, at Seymour. Floyd street, at Jackson. Clark ave., at Pleasant.

Hitchcock st., corner of Wade ave. Jennings ave., cor. of Starkweather. Humboldt street, corner of Croton. Kelly st., corner of Merchant ave. Kennard st., corner of Scoville ave. Jackson street, near Croton. Courtland st., corner of Bridge st. Burton street, corner of Cook. Jennings avenue corner of Crown. Willson avenue, corner Scoville ave.

### LIST OF RESERVOIRS NOT CONNECTED.

Bailey street corner of Divine street. Hanover street north of Church. Wason street corner of Payne ave. Weddell st., corner of Washington st. St. Paul street cor. of Washington st. Detroit street corner Gordon avenue. Brooklyn st., corner of Myers ave. Euclid avenue corner of Bolton. Chatham st., corner of Mechanic st. Euclid avenue corner of Bell. Forest street near Broadway. Harkness avenue. Scoville avenue corner of Bomford. Union avenue. Liberty street corner of Franklin. Branch avenue. Belden street corner of Superior. Cedar avenue. Cypress street corner of Superior. Cedar avenue corner of Bolton. Peach street corner of Clark avenue Quincy street corner of Baden. Clark avenue corner of Mill street. Oakland street. Junction street corner of Ravine. Herman street corner of Short street. Waverly avenue near Pearl street. Hickory street corner of Division. Green street near Eagle alley. Clark avenue corner of Gilbert. Jefferson street corner of Literary. Doan street at Eng. House No. 10. Euclid avenue corner of Dunham. Columbus street at Barber avenue. St. Clair street near Lyon street.

### RESERVOIRS CONSTRUCTED IN 1874.

Cor. of Chestnut Ridge and Lorain st. Cor. Gaylord street and Harvard st. Cor. of Walnut st., and Mechanic st. Cor. Broadway and Jones avenue. Cor. of Cedar avenue and Stark ave. Cor. Broadway and Petrie street. Cor. of Church street and Walnut st.

### RESERVOIRS CONSTRUCTED IN 1875.

St. Clair street near Lyon street. | Brooklyn at the corner of Myers.

### RESERVOIRS CONSTRUCTED IN 1876.

Miles avenue corner of Atwater st.

Cemetery street corner of Marble st.

Herald street corner of Rollin st.

Center street south of Broadway.

### RESERVOIRS BUILT IN 1877.

Hamm corner of Wackerling. | Haddock corner of Patton.

### RESERVOIRS BUILT IN 1878.

Classen corner of Reid.

Madison avenue corner of St. Clair.

Gordon avenue corner of Lanon.

Broadway corner of Harvard street.

### CONCLUSION.

This Annual Report of the Fire Department for 1878 is, perhaps, more voluminous than instructive, but is given, presuming that all superfluous matter will be expunged, and what is regarded as important will be incorporated in the general Annual Report.

The estimated expenses calculated to run the Department during the year 1879 was fixed by the Board, in April, at \$171,000. This amount was considered by the Auditor and Committee on Finance as being entirely too large, and as they thought their knowledge of the requirements for the Fire Department superior to the Board of Fire Commissioners, the levy was cut down to less than two mills on a dollar, which would give to the Fire Department for 1879 about \$136,000.

By the most careful management the present Board have clearly demonstrated that without calculating for accidents which are liable to occur at any time, it will take about \$145,000 yearly to pay the expenses of the Cleveland Fire Department, and it is a wise maxim, "In times of peace prepare for war;" hence all tax levies for the Fire Department should be made calculating that Cleveland is not entirely free from accidents. Several thousand feet of hose may be burned, engine and apparatus are liable to be destroyed, etc., and it matters not how large the Fire Department Fund may be, under the control of the present Board, no more of it will be used than is strictly necessary. The Council acted wisely in voting the tax levy for 1879 not less than two mills, and for the year 1880 the levy ought not to be less than  $2\frac{5}{20}$  mills on the tax valuation of property.

Some of the engines are getting old, and ought to be exchanged for new ones; several extension ladders are needed; one or two chemical engines might be beneficial; the officers and men are not overpaid for their services, for it is written that "A laborer is always worthy of his hire," and no Fire Department in the United States has more efficient officers and men than the Cleveland Fire Department. Should the Council cut down the appropriations so as to impair this efficiency by not furnishing the Board means to supply the Department with proper implements of warfare, then our excellent Department would soon lose its reputation.

In the business portion of the city there certainly ought to be two or three steamers with power sufficient to throw large streams of water, for a large fire is liable to occur at any time, and small streams thrown on to large fires has a tendency to increase the intensity of heat rather than to diminish it, hence the importance of guarding against any extensive fire which is liable to occur.

"An ounce of preventive is worth a pound of cure;" so have the Commissioners regarded the building of wooden structures within the fire limits. Only a few have asked permission to build of wood during the last three months. During the year forty-one permits have been granted to either erect frame buildings or to remodel old ones. The Board dislike to refuse requests to make improvements, but are obliged to do so in many instances in order to protect property. The building of so many small wooden structures among the large buildings is equivalent to putting on kindling preparatory to a large fire.

In July a petition from some of the citizens was presented asking the Board to appoint a Fire Warden, and the Commissioners, after due deliberation, concluded not to impose an extra expense upon the city by making such an appointment, but expressed a willingness to make the appointment providing the Board of Underwriters would pay the salary of such an officer, as they believed the Board of Underwriters would be the most interested.

The contract to furnish coal was awarded to Rhodes & Co., at \$2.05 per ton for Willow Bank, and \$4.63 for Chestnut hard coal.

The Chief engineers of the United States met in convention in the Council Chamber on the 10th of September, and continued in session four days. They were very appropriately received by His Honor, W. G. Rose, the Mayor, and very agreeably entertained by the citizens of Cleveland. Brayton, President of the Board of Underwriters, Mr. Buchman, Mr. Charles Gordon, and others, acted in concert with the Board of Fire Commissioners and Chief Bennett in making previous arrangements for their entertainment. The members of the convention honored Chief Bennett by electing him President of their association, and, although the terrible storm prevented an anticipated excursion upon the lake (ample arrangements having been made), vet a large number of our citizens, with the Board of Fire Commissioners, joined them in a splendid banquet, intruding upon the generosity of General L. A. Pierce, who contributed largely to the pleasure of the occasion.

In August the Board, in company with a few invited citizens, made a thorough tour of inspection of all the houses, and were highly pleased to find a system so near perfection among the several companies. The houses were all kept in good order, the men at their posts ready for duty at a moment's warning, and the conditions satisfactory in the highest degree.

The alacrity of the firemen in turning out of bed, hitching up the horses and getting ready to turn out to fires, was truly wonderful. It is all done so quick that one would scarcely believe it possible without seeing it. The time made in hitching up ready for a start is in most all instances about nine seconds. still when a person sees his property burning nine seconds seems to him a long time, and the firemen are often censured for driving so fast to fires. To please all and make no mistakes is among the impossibilities.

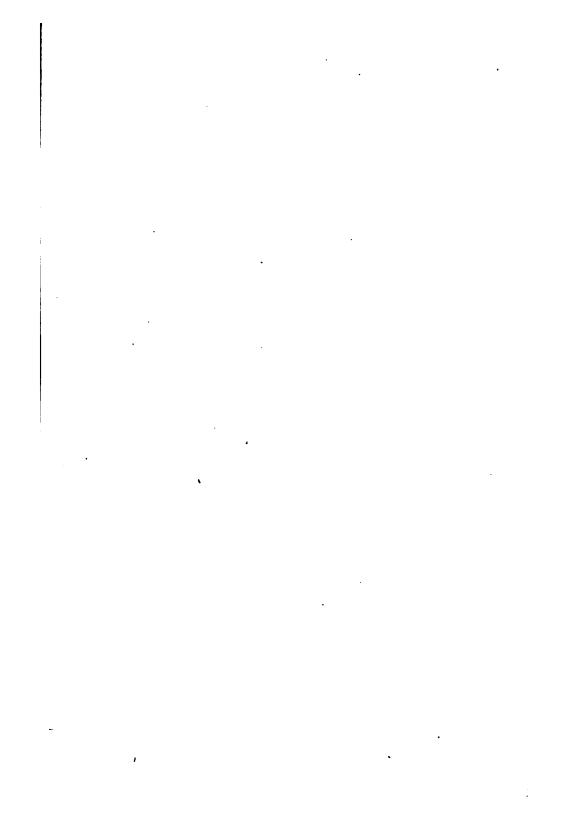
And now, gentlemen, the members of the Board desire to thank you for your co-operation in assisting them in the management of one of the most efficient fire departments in the world.

All expenditures made during the year have been cheerfully acquiesced in by your Honorable Body.

By order of the Board.

A: J. SPENCER,

Secretary.



#### EIGHTH ANNUAL REPORT

OF THE

#### DIRECTORS AND SUPERINTENDENT

OF THE

## WORKHOUSE

AND

## HOUSE OF REFUGE @ CORRECTION

TO

THE CITY COUNCIL OF CLEVELAND,

FOR THE YEAR 1878.

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## OFFICERS.

#### BOARD OF DIRECTORS.

HARVEY RICE, PRESIDENT.

J. H. WADE,

S. C. BROOKS,

GEO. H. BURT,

WM. EDWARDS.

Superintendent,

W. D. PATTERSON.

Deputy Superintendent of the Workhouse Department,

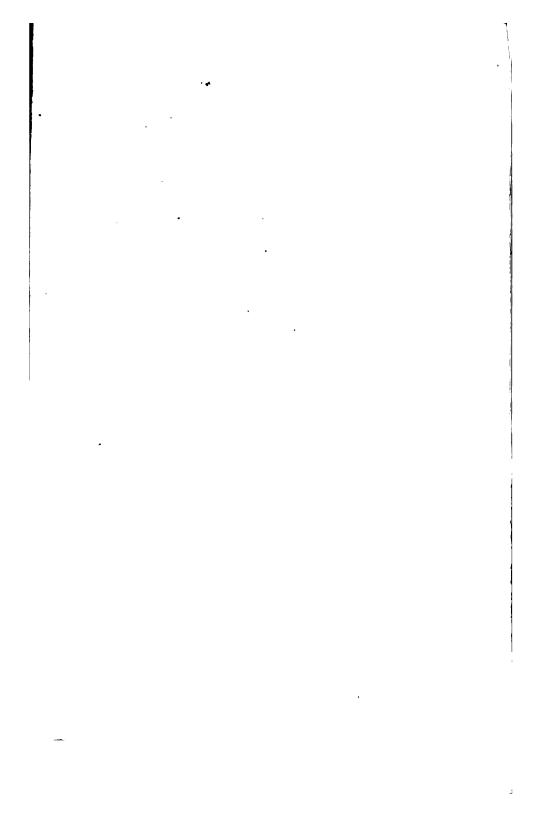
JOHN A. McINTOSH.

Deputy Superintendent of the Refuge Department,

Principal Matron,
MRS. MARGARET A. PATTERSON.

Teachers of Refuge Schools,

ALEXANDER MCBANE.



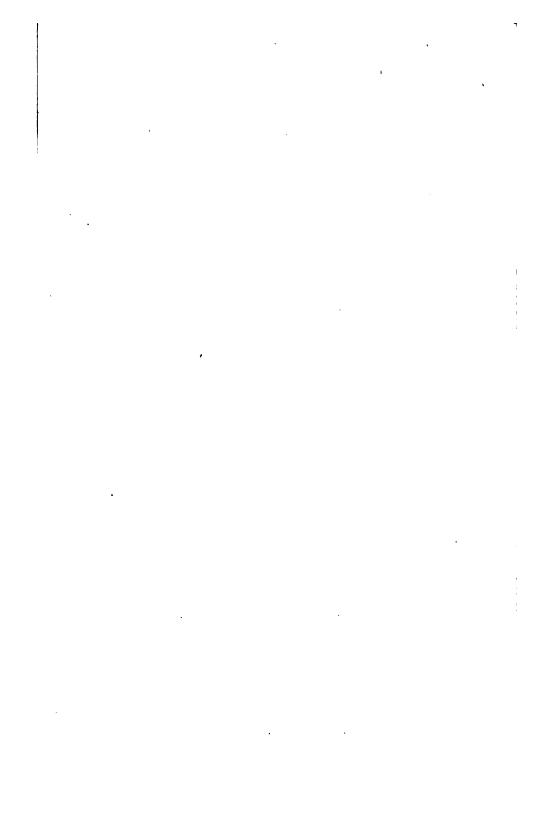
CLEVELAND, O., Feb'y 10, 1878.

To the Honorable, the President and Members of the City Council of the City of Cleveland, Ohio:

GENTLEMEN:—As required by law, and per authority of the Board of Directors of this institution, I have the honor herewith to present to your honorable body this, the Eighth Annual Report of the Board of Directors, and Superintendent of the Workhouse, House of Refuge and Correction, together with the Report of the Attending Physician, for the year closing December 31st, 1878, with the request that the same be ordered printed in pamphlet form.

Respectfully yours,

W. D. PATTERSON, Supt.



## REPORT

OF THE

## Workhouse Directors.

#### To the Honorable City Council:

GENTLEMEN:—We respectfully submit to your honorable body our Annual Report for the year 1878, relative to the Workhouse and House of Refuge and Correction. In doing this we are gratified in being able to state that the success of these conjoint institutions has been, in many respects, more encouraging than in previous years. While as reformatories they have continued to be efficient, they have from their earnings and incomes paid into the City Treasury, during the past year, the sum of \$92,509.47, and have, in fact, become substantially self-supporting.

#### WORKHOUSE DEPARTMENT.

The entire number of convicts who have been imprisoned in this department in the course of the past year, is 1,309; the number discharged, 1,038; the number remaining, 271, which is 63 less than in 1877. This last fact would seem to indicate a diminution of crime as the result of the reformatory power which the institution exercises on the character of its inmates.

The current expenses of the year have been considerably increased by the expenditure of \$9,009.80 in the erection of an additional building for workshops and hospital accommodations, and in making other permanent improvements; and, though the institution has manufactured and sold more goods than in any former year, it has been largely curtailed in its receipts, owing to a decline in prices caused by a severe competition in the market. It is for this reason that the institution has fallen short \$3,687.92 of sustaining itself the past year. Except for these adverse causes the institution would, in all probability, have paid into the City Treasury a surplus revenue of eight to ten thousand dollars.

#### REFUGE DEPARTMENT.

The whole number of youth who have been confined in this department, in the course of the past year, is 175; the number discharged, 99; the number remaining, 76, but two of whom are girls. This department, from its earnings and incomes, has paid into the City Treasury \$204.46 more than its current expenses for the year, and consequently has become self-supporting for the first time in its history. This result has been achieved, not by abridging the educational advantages of the institution in the least, but by employing the boys in the more profitable industry of manufacturing brushes instead of seating chairs.

This department, known as the Refuge, is simply a school where juvenile delinquents, less than sixteen years of age, are received, not to be punished, but to be reclaimed by educating them, and thus fitting them to become good and useful citizens. While retained as inmates, they are treated with kindness and with parental care; but are held, at the same time, to a faithful discharge of their duties. They are, in fact, a "happy family." Their time is about equally divided between the schoolroom, the workshop and the playground. When

they reach the "roll of honor" they are discharged. Nearly all who have completed the course, and been thus discharged, have gone forth into the world reclaimed, and resolved to lead honest and exemplary lives.

The great defect in the Refuge is the want of a suitable apartment for girls. The average number heretofore sentenced to the Refuge has been from forty to fifty a year. They were received and placed, from necessity, in the department assigned to adult women. But experiment has shown that they cannot be successfully reclaimed while thus exposed to the impure influences of vicious women. This fact has induced the Board to discourage the reception of girls, and to discharge them rather than subject them to such degrading and pernicious influences.

This glaring inconsistency in our Refuge system of discipline is one which ought not only to be promptly rectified, but, if allowed to continue, should arouse a feeling of indignation in the breast of every philanthropic citizen. We therefore trust your honorable body will take speedy action in reference to this matter, and provide for the proper accommodation of this class of wayward young girls, who are becoming numerous, and who cannot be reclaimed unless subjected to a compulsory education. We would here suggest that the required accommodations could be readily furnished by erecting an additional apartment to the Refuge on itse asterly side, at a cost not exceeding five or six thousand dollars, which would afford ample room for the probable number of inmates for the next twenty years or more. We will soon be prepared to present your honorable body with plans and definite estimates of the needed addition for your consideration.

#### GENERAL REMARKS.

In order to comprehend the industrial system of discipline to which the inmates of both institutions are subjected, and which has proved so satisfactory in its results, it should be borne in mind that these institutions constitute a regular "manufacturing establishment," and, as such, it manufactures on its own account. In other words, it purchases the raw material, combines its labor with it, and puts its goods in market like any other manufactory. It confines itself to the art or trade of brush making. This industry has been selected, because it is simple in its character, and for that reason adapted to unskilled labor. By adopting this industrial system all conflict between prison and free labor has been avoided, while at the same time all the inmates, though impaired in health, can be kept employed and under an influence much better adapted to reform them, than if their labor were let to outside contractors.

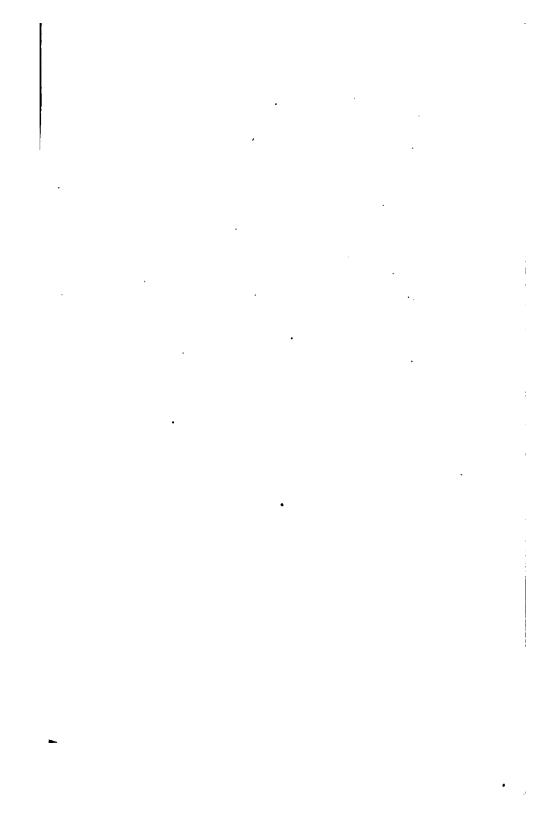
For more specific statements relative to the statistics and finances of the Workhouse and Refuge, we would refer your honorable body to the "Annual Report" of the Superintendent, hereto attached. The success which these institutions have achieved is principally due to his faithful and judicious management, assisted by his efficient and vigilant wife as Matron; and in this connection, it is but justice to add that the subordinates have generally discharged their official duties with a fidelity worthy of commendation.

Every step has been taken, that reasonably could be, to make these institutions not only self-supporting, but effective as reformatories. Religious services in the Chapel and Sunday schools have been regularly maintained, and are attended by the inmates with evident interest and profit. The privileges of the library are also appreciated, and, as an auxiliary nothing seems to contribute more than an interesting book to

cheer the solitary hours of prison life, and advance the moral welfare of the convicts.

We cannot conclude without expressing our thanks, as a directory, to the volunteer clergy, the Young Men's Christian Association, and the good Christian women, who have so generously rendered their benevolent services in aid of these reformatory institutions, from time to time, during the past year, and whose teachings have manifestly been productive of the happiest results.

HARVEY RICE,
J. H. WADE,
S. C. BROOKS,
WM. EDWARDS,
GEO. H. BURT,
Directors.



## SUPERINTENDENT'S REPORT.

To the Honorable Board of Directors of the Workhouse, House of Refuge and Correction, Cleveland, Ohio:

GENTLEMEN:—In compliance with the act of incorporation I hereby present to your Honorable Board my Annual Report of the operations of these institutions for the year closing December 31, 1878, this being my seventh, and the eighth Annual Report since the organization.

#### POPULATION.

On the first day of January, 1878, there was in confinement in this prison (see table No. 1) two hundred and eighty-two (282) males and fifty-two (52) females, a total of three hundred and thirty-four (334) persons.

During the year nine hundred and seventy-five (975) persons were committed, seven hundred and fifty-three (753) of whom were males, and two hundred and twenty-two (222) being females.

In the same period ten hundred and thirty-eight (1,038) persons were discharged, of whom eight hundred and ten (810) were males, and two hundred and twenty-eight (228) were females, leaving in confinement, December 31, 1878, a total of two hundred and seventy-one (271) persons, two hundred and twenty-five (225) being males, and forty-six (46) being females, showing a decrease of sixty-three (63) persons during the year.

The average number supported for the year was two hundred and sixty and two-thirds  $(260\frac{2}{3})$ . Of these two hundred and three (203) were males, and fifty-seven and two-thirds  $(57\frac{2}{3})$  females (see table No. 6), being an average less than the previous year, in the aggregate, of forty (40) persons. See table.

Annexed I present the financial statements, giving in detail the expenses and gains of these combined institutions for the year. In Exhibit "A" we show our revenue from all sources, together with the balance on hand at the beginning of the year, this being the capital on which we had to work during the year, amounting to one hundred and forty-one thousand, seven hundred and twenty dollars and sixty-eight cents (\$141,720.68).

During the year warrants were drawn upon the City Treasurer by the City Auditor, as per city ordinance, for one hundred and thirty-two thousand, eight hundred and twelve dollars and eighty-eight cents (\$132,812.88), leaving at the close of the year on hand a balance of eight thousand nine hundred and seven dollars and eighty cents (\$8,907.80).

You will please notice that the revenues, or receipts, were for twelve months, and that the disbusrements by warrants drawn upon the treasury were for the bills of fourteen months, being for four months in 1877, and ten months in 1878. In the detailed statement, which is a part of this account "A," you have the sources from which receipts of the institution arise, given in detail.

Exhibit "B" shows in detail the property on hand and our liabilities.

Exhibit "C," a statement showing the entire expenses for the year and the gains arising from our manufacturing interests, together with the gains arising from boarding accounts. In this statement you have the net cost to the city for the entire expenses of the two departments for the twelve months ending Dec. 31st, 1878, the amount being twelve thousand, nine hundred and two dollars and eighty-one cents (12,902.81). When we deduct from this net expense the special and general improvements, amounting, as follows, to:

Special Improvements	··· ···\$5,399 21
General Improvements	3,610 .64

\$9,009 85

Deducting these improvements from the foregoing net expense, we have a further showing, of a cost only of three thousand, eight hundred and ninety-two dollars and ninety-six cents (\$3,892.96) as against five thousand, eight hundred and forty six dollars and seventy-one cents (\$5,846.71) for the previous year, being less for 1878 than in 1877, in the sum of nineteen hundred and fifty-three dollars and seventy-five cents (\$1,953.75).

Gains arising from the principal industry (brush making) have not been so great as in the year previous, for several reasons. First, we have had a less number of prisoners than in the previous year, and as a result a diminished production. Second, we have experienced a still further decline in prices of goods manufactured; hence as shown, with less goods for the market, and a less margin of profit, the result is not so gratifying as in our last report.

The extent to which our business might have reached during the year, has only been limited by want of ability to produce, this arising from a diminished number of hands.

At the close of the year 1877 there remained in the hands of the City Auditor, the accumulated bills for four months of the year, unpaid, amounting to the sum of twenty-six thousand, four hundred and fifty-six dollars and twenty cents, (\$26,456.20) with a sufficient balance remaining in the City

Treasury, twenty-eight thousand, seven hundred and thirtynine dollars and ninety cents (\$28.736.90) to have paid all bills and leave a balance in the treasury.

These four months' bills remained over, and were paid in the current year. These, together with the bills for the twelve months of the present year, as sent to City Auditor, amounting to one hundred and twenty thousand, six hundred and twenty-six dollars and sixty-nine cents, (\$120,626.69) aggregate a total bills for the year (or rather for sixteen months) of one hundred and forty-seven thousand and eighty-two dollars and eighty-nine cents, (\$147,082.89. Warrants drawn as per city ordinance upon the City Treasurer, amounting to (see account "A" one hundred and thirty-two thousand, eight hundred and twelve dollars and eighty-eight cents, (132,812.88), leaves remaining in the hands of the City Auditor two months' bills unpaid, amounting to the sum of fourteen thousand, two hundred and seventy dollars and one cent, (\$14,270.01).

Exhibit "H" is a concise financial showing, as to balance in treasury at the beginning of the year, also the amount realized from the tax levied for Workhouse, and paid into Treasury together with the amount deposited by the Superintendent, as follows:

Jan. 1st, Balance in Treasury	28,739	90
Net Amount of Tax paid in	17,537	80
Deposited by Superintendent, 12 months	92,509	47
Total Fund for the year	138,787	17
Warrants paid during same time	132,812	88
Dec. 31, 1878, Balance in Treasury	5,974	<del></del> 29
PP1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		

The cash deposits for the year exceed the deposits of the previous year in the sum of nine thousand, eight hundred and eleven dollars and ninety-eight cents (\$9,811.98), thus:

Deposits, 18	578. <b></b>	• • • • • • • • • • • •	
Deposits, 18	377		82,697 49

#### MALE DEPARTMENT.

The principal industry in this department, and, indeed, for the whole institution, has been in brush making. This work has been carried forward vigorously throughout the year, even to working for several months at night. Our best energies have failed to produce a quantity of goods equal to the demand for them. With a sufficient number of hands we could have largely increased our production, and thereby make a much better showing for the city, at a very small additional expense in the working of the institution.

In the boarding of prisoners convicted under State laws, and paid for by the County Commissioners of Cuyahoga County, and of U. S. prisoners paid for by the U. S. Marshal, and by sundry individuals for individual cases, the receipts have fallen off since last year to the amount of seventeen hundred and ninety-nine dollars and sixty-one cents. (\$1,799.61).

#### SHOE DEPARTMENT.

We have continued to make and repair shoes for both departments of the institution, also to make and repair for officers and employes who desired to have such work done.

#### PAPER BOX SHOP.

This branch of our work was discontinued early in the year, and the females who worked this department were all put to brush drawing, excepting those employed in household duties. We have demonstrated that such younger women and girls as are committed here from time to time can become adepts in brush drawing, and thereby aid largely in contributing to their own support.

The usual amount of unproductive labor has been performed by the female prisoners in laundry, house-work, and cooking for officers.

#### MPROVEMENTS.

. At the time of our last report the necessity was upon us for more cell room; accordingly early in the year we commenced the work, and fitted up and made ready for occupancy in the east wing of the prison building, thirty new cells.

A new plan of workshops was decided upon, with store rooms and hospital accommodation for males. About May first this work was commenced, and carried to completion. make room for these shops the barn then in use had to be torn down and a new one built, using, as far as practical, the old material. These shops, store rooms and hospital have supplied a long felt want; they are all complete, spacious and comfortable, and have been done at a cost of fifty-three hundred and ninety-nine dollars and twenty-one cents (\$5,399.21). A very large amount of unproductive labor was accomplished in these improvements by the prisoners, such as excavating, attending masons, carpenter work, painting, etc., all of which labor for the year in improvements, shows no return in cash, yet has been a saving to the city of from one to two thousand dollars.

#### HEALTH.

Continued good health and freedom from any alarming contagion has been vouchsafed to our household throughout the year. Four persons have died, (see report of the attending physician).

Those sick or who in any way have required the services of the physician, have had prompt, and as we believe, skillful attention.

#### RELIGIOUS SERVICES,

as formerly, have been conducted on the Sabbath days, by ministers of various denominations, and on every alternate Sabbath a Catholic minister has conducted a morning service; also delegations from the Young Men's Christian Association of this city, as have been their custom for years, have been present on alternate Sabbaths and conducted an afternoon service, generally with great acceptability. All such services are a voluntary offering on the part of those conducting them in the cause of humanity.

A number of the Christian ladies of this city have also visited the females of the institution, holding religious personal conversation, and conducting brief religious services with and for them. Our faith leads us to believe that their labors have been blessed in leading some poor erring sister from error's ways, to paths of truth, virtue and right.

Frequent donations of books and magazines, also papers, have been made us by sympathizing friends, nor have we been forgotten by the ladies of the Flower Mission, as evidenced by the liberal supply of flowers on several occasions distributed among the children, the women and the sick.

#### A GIRL'S "REFUGE HOME."

There is a great and pressing demand upon the city and her authorities for the providing of a suitable "Refuge Home" for young girls, where they may be entirely separated and kept from the evils consequent upon an association with those older in crime in the Workhouse, (as is now the case, by reason of a want of sufficient and proper accommodations), so that the girls and women should in no way come in contact with each other.

I cannot better state the case than by quoting from my last report to your Honorable Board, as follows:

"In this connection I would call attention to the growing demand, as well understood by this Board of Management and many of our citizens, male and female, for a Refuge Home for Young Girls—a place intermediate between the evils surrounding these young lives in the outside world and a prison

life, which will in the future be theirs if not brought under restraining influences while yet in their youth. It is well understood that we have no place to which these young and wayward girls could be sent, nor indeed do we know of any suitable place in the city where they can be cared for. The action taken early in the year by this Board, wherein you decided, after being thoroughly convinced that this was not a suitable place for such offenders, not to admit any more because of the evil tendencies of their surroundings and associations, was wise and judicious. These girls cannot be trained and cultured, if here, for the want of a separate place for them. Then there is the other fact before us, and the whole community, that if they are left to themselves unrestrained, the end can only be early and inevitable ruin.

"What is wanted for this class of persons is a Home. It may be small at first, and increased as the circumstances may demand; where they shall be brought under strict home and Christian influences, with Christian administrators and teachers over them; where they may be taught a common school education, and trained under competent and careful instructors in all the art and mystery of good housekeepers—such as cooking, baking, cutting and sewing, and laundry work—all of which they must acquire if ever prepared for the active duties of after life, in whatever sphere they may be placed, and without which they are unprepared for positions of honor and usefulness in the world.

"This subject is one that should commend itself to the philanthropic of this and all cities. In this, as in all other cases, prevention is better than cure."

#### House of Refuge.

In this department the year opened with eighty-seven (87) boys and two (2) girls, in all, eighty-nine (89). Admitted during the year, seventy-six (76) boys and ten (10) girls, in

all, eighty-six (86). Discharged during same time, ninety (90) boys and nine (9) girls, a total of ninety-nine (99), leaving remaining with us December 31, 1878, a family of seventy-three (73) boys and three (3) girls, in all seventy-six (76) children remaining in "House of Refuge," showing a net decrease for the year of thirteen (13).

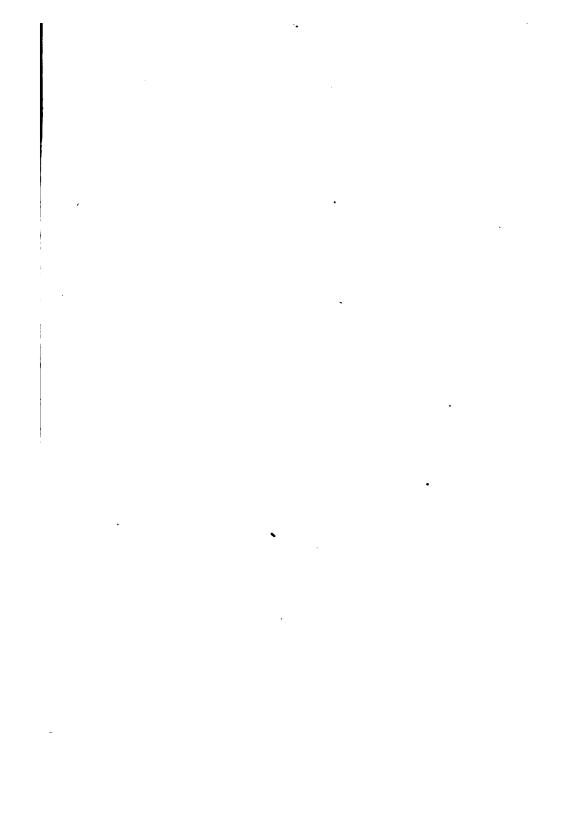
The following table will show at a glance the population of this department at the close of each year of its existence. Also the increase for four years, and the decrease for three years:

December	31,	1871,	remaining														25
"	31,	1872,	"														59
	31,	1873,	"								•	٠.					83
44	31,	1874,	64													. 1	20
4.4	31,	1875,	**													1	161
"	31,	1876,	44													. 1	58
**	31,	1877,	44														89
44	31,	1878,	"														76

The school has been under the same corps of male teachers as in the past, and, as we think, has been well managed for the entire year, and doubt not that much good is being done through this channel.

Again I desire to express my gratitude to the Board of Management for their hearty co-operation, and for wise counsel, and for the uniform kindness extended to myself and family, expressing the hope that so long as we remain together our relations may remain the same—pleasant in all particulars.

W. D. PATTERSON,
Superintendent.



## SUPERINTENDENT'S STATEMENTS.

## EXHIBIT "A."

## Statement of Receipts and Disbursements.

1878.					_
Jan. 1	Cash on hand with City Treasurer	\$28,739 5,180	90 71	\$83,920	61
Dec. 31	Cash Receipts for year from Workhouse	83,786 6,475			27
	Cash Receipts for year from Taxes			17,537	80
1	DISBURSEMENTS.			141,720	68
1	Cash paid by Warrants on City Treasurer			182,812	88
	Balance on hand	5,974	_	8,907	80
	Viz: With City Treasurer Superintendent	2,933	51	8,907	80

## Detailed Statement of Receipts.

ı			FROM	WORKHOUSE.			•	İ	
Dec. 31	Received		  Boarding	Paper Boxes, Shoes, Rags, etc., Meat Bones & B Live Stock, etc. Prisoners,				174 107 6,877	7 4 × 6 3 41
·	"	"	rines, Ci Sundries Labor,	ty Cases,	"			9	00
- 1		FR	OH MO	USE OF REFU	GE.			83,786	95
	Received	for	Boardin Cane Se Sale of	g Inmates ating Chairs Chair Forms	· • • • • • • • • • • • • • • • • • • •	 \$4,460 2,011 3	50 82 00	6,475	32
	Receip	ots a	s above	stated	• • • • • • • • •	 	. 7	\$90,262	27

#### EXHIBIT

#### Statement Showing Property on Hand.

Dr.

1878. EFFECTS. Amount due by sundry persons on Book Accounts to Workhouse
Amount due by sundry persons on Book Accounts to House of Refuge Dec. 31 \$46,129 43 491 95 \$46,621 38 4,063 08 773 85 Furniture and Fixtures on hand in Workhouse....
"House of Refuge 4,836 93 " Workhouse ..... " House of Refuge 3,196 44 Clothing and Bedding 720 08 3,916 50 Stationery, Blanks, etc. School Books, etc., " Workhouse ...
" House of Refuge 186 04 210:60 .. 396 64 Shoes, " Workhouse 381 " " House of Refuge 251 96 633 46 Provisions, " Workhouse..... 720 18 Shoe Shop—Tools, Mater'ls, "Brush Shop—Manuf'd Stock "Raw" 73 60 ..... 62 90 . . . . . 3,929 84 22,595 45 26,525 29 • • • • Blacksmiths' "" 6.314 94 33 00 46 .. 46 Engine Oil, etc.

Carpenter Shop, Tools, etc.

Lumber and Shingles,

Chair Shop—Stock & Tools,

General Implements

Lumder Mobbinors \*\* 44 .... .. 46 31 04 .... 44 " House of Refuge 19 00 "Workhouse.... 1,846,92 1,000,00 Laundry Machinery, Live Stock, 752 53 Cash in hands of Superintendent,"
City Treasurer 2,933 51 5,974 29 . . . . . " 8,907 80 3102,341 66

"B."

Debts Due Workhouse and House of Refuge.

1878.			Cr.
	LIABILITIES.		
Dec. 31 A	mount due City of Cleveland, invested as follows: Property in hands of Superintendent Cash. Book accounts	\$46,812 48 2,983 51 46,621 38	<b>Ana 207 27</b>
	Cash in City Treasury		\$96,367 37 5,974 29
		i	
	\		
			\$102,841 66

3

EXHIBIT
...
Statement Showing Expenses and Profits of Cleveland

		EXPENSES.			
Dec. 31	Cost of	Furniture and Fixtures,	Workhouse House of Refuge	\$ 917 18 146 26	
:	"	Clothing and Bedding,	Workhouse House of Refuge	782 74 1,022 86	1 .
	"	Sundry Supplies,	Workhouse House of Refuge	2,403,84 87,09	2,4909
	"	Shoes	Workhouse. House of Refuge	624 44 105 04	
	Boardin Loss by	Provisions, Fuel and Light, Brush Shop Implements, Box " Blacksmith " Engine Repairs and Suppl General Improvements, Special Medical S'vices and Suppl " Sundry Implements, Laundry Live Stock, Hay and Fee Salaries of Employes, " Repairs Heating Apparat Boilers, g House of Refuge inmat Bad and Doubtful Book	ies. " House of Refuge Workhouse d, " House of Refuge us, Workhouse	10,073 06	16,90636 4,54767 281,23 44900 25,77 55,811 3,61046 5,309,21 865,77 32,62 185,44

Note.—The accounts from which this and the preceding account is compiled are given in detail, with proper "reference letters," on the following pages.

"C."

## Workhouse and House of Refuge and Correction.

1878.			
	GAINS.	1	
Dec. 31	Gain in Manufacture of Brushes, Workhouse "Paper Boxes, " "Shoes, " "Cane Seats, H'se of Refuge Sundries, Workhouse. "Carpenter Shop, " "Labor of Boys, H'se of Refuge Amount rec'd for boarding innates H'se of Refuge viz: From Cuyahoga County Commissioners "Individuals.  Amount rec'd for boarding inmates of Workhouse, viz: From Cuyahoga County Commissioners "Individuals "Individuals Manual due Workhouse for board of inmates and officers of House of Refuge Net expense of maintaining Workhouse and House of Refuge	\$ 4,301 49 98 01	4,399 50

1

## EXHIBIT

## Statement Showing Expenses and Profits

1878.				
	EXPENSE	3.		1
Dec. 31	Expenditures for Workhouse Depar "House of Refuge Net Gain in House of Refuge,	rtinei "	(Exhibit F.)	\$49,788 92 9,684 16 - 204 46 \$59,677 55

## EXHIBIT

## Statement Showing Expenses and Profits

1878.	•		
Dec. 31	EXPENSES.  Expenses for Furniture and Fixtures  " "Clothing and Bedding"  " Sundry Supplies"  " Shoes"  " Provisions  " " Fuel and Light"  " Brush Shop Implements  " Paper Box Implements  " Blacksmith  " Engine Repairs  " General Improvements  " Special "	2,403 84 624 44 16,906 39 4,547 61 231 29 449 00 25 75 558 10 64 5,800 21	
L	" Medical Services and Supplies " Sundry Implements " Laundry Machinery " Laundry Machinery " " Live Stock, Hay and Feed " " Salaries " Repairs to Heating Apparatus " Boiler " " Boiler " " Sobs by Bad and Doubtful Book Accounts. "	772 34 326 22 185 48 428 87 10,073 06 258 98 501 87 785 88	\$49,788 92

"D."

## of Workhouse, House of Refuge and Correction.

1878.			
	GAINS.		_
Dec. 31	Gain on Workhouse Departments		62 37
	·	\$59,677	5 <del>4</del>

' É."

## of Workhouse Department.

GAINS.		1	
Dec. 31 Gain in Brush Department		\$21,884 189 421 66 9 28	48 90 60 00
" Interest Amount received for board of Prisoners, viz: From Cuyahoga County Commissioners " United States Marshal " Individuals  Amount due for board of House of Refuge Inmates	176 85		
and Officers  Net Expense Workhouse Department		7,041 18,105	
		\$49,788	95

## EXHIBIT

## Statement Showing Expenses and Profits

Dec. 31	EXPENSES.  Expenses for Furniture and Fixtures	105 04 93 45	
		201 10	\$9,888 62

## EXHIBIT

## Statement Showing Monthly Bills Approved

an.  8  eb.  2	31 B	1115	w uai	ve sent	to City	Audi	or,		• • • •			.   \$10,21
		44	16	**		•			• • • • •			11,14
	Щ			-		**			· · · • •			12,19
pril a			**	"	**	**	• • • •				<b></b>	10,48
	31	**	"	••	**	4.		<b>.</b>				11,55
une  3		٠.	44	44	••	**					•••	12.50
aly '3	311	44	46	44		66				•••••	· · · · · · ·	8,52
ug. 8	nl	• •	**	٤.	46	٤٠	••••			• • • • •	• • • • • •	
pt. a	id	64		61		"		•••		• • • • • •	• • • • • • •	7,32
	ñ	• 6	' "		46	**	•••••	• • • • • •	• • • • •	••••	• • • • • •	. 11.47
ov. 3			44		64		• • •	• • • • · · ·		• • • • •	· • • • • • •	9,97
			••	46	44	"		••••			<b></b>	5,70
ec.					-		• • • •	• • •				1 9.43
- 1	I A	dd	Sept.,	Oct	Nov., I	)ec 18'	7. hills	a naid i	in 183	2		26 45

"F"

## of House of Refuge Department.

1878.	<u> </u>			
	GAINS.	1		Γ
Dec. 81	Gain on Cane Seating, Labor of Inmates Brush Making ""		\$ 526 4,960	
	Amount Received for Sale of Chair Forms		2	00
1	" " Boarding Inmates, viz : From Cuyahoga County " Individuals,	\$4,801 49 98:01	į	
	,,		4,899	50
i	·	ļΠ	\$9,888	62

"G"

## and Sent to City Auditor for Payment.

)ec.31	Warrants Drawn to Date (Exhibit "A")	\$132,812 8 14,270 0	9
		,	
		ı	
		1	
		İ	\$147,082

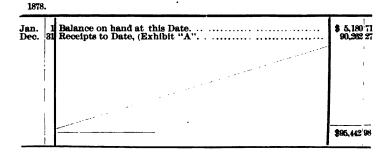
## EXHIBIT

## Statement of Workhouse and House of Refuge and

1878 Jan.	Balance in hands of Treasurer (Evhible "A"	\$28,739.90
	 Balance in hands of Treasurer, (Exhibit "A"	17,587 80 92,509 47 \$138,787 17

## EXHIBIT "A."

## Superintendent's



#### " H "

## Correction Funds in City Treasury.

1878.	
Dec. 31 Warrants Paid by Treasurer to Date	\$132,812.88 A''). 5,974 29
	\$188,787 17

#### "I"

## Cash Account.

	sebosine	am chy	reasury	to Date \$ 3,478
'eb. 28	••		••	" 10,545
f'ch 31	**	**	"	6,809
April 30	• •	**	**	* 8.116
lay 31	4.6	**	66	" 4.856
une 30	44		4.6	4 9,042
uly 31	44	4.6	14	" 10,331
lug. 31	44		16	9,131
	61	44	44	40.01
			44	
	11	14		
iov. 30	•			
)ec. 31	.4	• •	**	" 10,825
)ec. 31 <b>1B</b>	alance ir	ı Sunerir	tendent'	s hands (Exhibit"B") 2,933

## COMPARATIVE STATEMENTS

# Showing Drafts on Treasury and Deposits in Same Since the Opening of the Institution.

	,	
1871.		
Warrants drawn on City Treasury	\$35,894 72 1,230 98	<b>2</b> 04 001 50
Excess of Warrants		<b>\$</b> 34, <b>6</b> 61 76
1872.		
Warrants drawn on City Treasury Deposits by Superintendent in City Treasury	42,940 50 6,908 88	36,096 67
Excess of Warrants		107/190 (1)
1873.	1 :	
Warrants drawn on City Treasury Deposits by Superintendent in City Treasury	61,413 77 37,690 64	23,728 13
Excess of Warrants		
1874.		
Warrants drawn on City Treasury.  Deposits by Superintendent in City Treasury		14,381 60
Excess of Warrants		
1875.		
Warrants drawn on City Treasury Deposits by Superintendent in City Treasury	84,062 04 58,342 74	28,319.30
Excess of Warrants.	1 1	
1876.		
Warrants drawn on City Treasury	78,843 <b>62</b> 40,192 77	<b>32.</b> 150 85
Excess of Warrants		
1877.		
Warrants drawn on City Treasury.  Deposits by Superintendent in City Treasury	80,013 97 82,697 49	2.683.52
Excess of Warrants		
1878.		
Warrants drawn on City Treasury (14 months' bills) Deposits by Superintendent in City Treasury	182,812 88 92,509 47	40.308 41
Excess of Warrants		

#### ABSTRACT

OF

# Workhouse Accounts.

#### EXHIBIT "J."

#### Brush Account.

1878.	_		
!	Dr.	. !	
Jan. 1 Dec. 31	For Balance on hand. "Purchases during the year. "For Profits on 12 months' sales (Exhibit "(','').	,	\$ 19,167 89 74,679;53 21,884 86
			\$115,732 28
i	CR.		İ .
Dec. 31	For Sales during the year  Balance on hand (Exhibit "B"	\$89,206 99 28,525 29	
	Manufactured Stock \$ 3,929.44 Raw Material 22,595.45		
1	\$26,525.29		

# EXHIBIT "K."

#### Paper Box Account.

1878.	Dr.		Γ
Jan. 1 Dec. 31	or Balance on hand Purchases during the year Profits on four months' Sales. (Exhibit "('")	\$ 635 1,064 189	35 57 48
	Ск.	\$1,889	40)
Dec. 31 Fe	or Sales during the year	\$1,889	40

#### CITY DOCUMENTS.

# EXHIBIT "L."

# Shoe Shop Account.

4	0	•0
	0	ю

	Dr.	'	
Dec. 1 Jan. 31	For Balance on hand " Purchases during the year " Profits in this Dept. (Exhibit "(""		\$ 79 23 360,06 421:90
1			\$870 19
,	Cr.		
Dec. 31	For Work Manufactured and Repaired.  "Shoes for House of Refuge"  "Workhouse"  "Balance on hand (Exhibit "B")	\$179 35 270 50 357 44 62 90	:
	Balance on hand (Ballott B)		870 19

# EXHIBIT "M."

#### Furniture and Fixtures.

	Dr.	
Jan. 1 Fo Dec. 31	r Balance on hand	\$4,496 50 483 71
	Cr.	\$4,900 21
Dec. 31 Fo	r Balance on hand (Exhibit "B,")	4,063 08
	Expense of same for 1878 (Exhibit "C,")	\$917 13

# EXHIBIT "N."

# Clothing and Bedding

#### 1878.

R .	Dr.		
Jan. 1 Dec. 31	For Balance on hand. " Purchases to date		\$31,254 57 732 90
•	Cr.		\$3,967.47
	For Sale of rags, etc. (Exhibit "A,")	8 × 29 3,196,44	3.204 73
·	Expense of sume for 1878 (Exhibit "C,"		\$ 782 74

# EXHIBIT "O,"

# Sundry Supplies.

	Dr.		
Jan. 1 Dec. 31	For Balance on hand	1	\$ 348-22 2,247-91
	Св.		\$2,596 13
Dec. 31	For Sale of Soap Boxes, etc Balance on hand (Exhibit "B,")	\$ 6 25 186 04	192 29
· .	Expense of same for 1878 (Exhibit "C,")		\$2,403 81

# EXHIBIT "P."

#### Shoe Account.

	Dr.	I	
Jan. 1 Dec. 31	For Balance on hand. " purchases to date.	1	\$648 50 499 50
	('R.	'	\$1,148 00
Dec. 31	For Work done for House of Refuge " Balance on hand (Exhibit "B.")	\$142 00 381 50	523 65
	Expense of same for 1878 (Exhibit "C,")		3624 44

# EXHIBIT "Q."

#### Provision Account.

1919
------

	Dr.		
Jan. 1 Dec. 31			\$ 563 e0 17,314 77
1	Cr,		\$17,878 46
Dec. 31	For Sale of Barrels, Bones, etc	\$251 89 720 18	972 07
	Expense of same for 1878 (Exhibit "C,"		\$16,906 39

#### CITY DOCUMENTS.

# EXHIBIT "R."

# Fuel and Light.

1878.

Dr.	
Jan. 1 For Balance on hand	\$ 57 30 4,563 91
('R.	\$4,621 21
Dec. 31 For Balance on hand	73 60
Expense of same for 1878 (Exhibit "C,"	\$4,547 61

#### EXHIBIT "S."

# Implement Account.

1878.

Dr.	
Blacksmith Shop	\$3,621 10 1,347 00 54 00 1,212 22 27, 13 4,75
General Implements	——
Cn.	\$8,727 13
Dec. 31 For Balance on hand (Exhibit "B")	7,694 %6
Expense of same for 1878 (Exhibit "C")	\$1,032 27

# EXHIBIT "T."

# Live Stock, Hay and Feed.

1878.

1010.			
	Dr.		1
Jan. 1 Dec. 31	For Balance on hand " Purchases to date		\$856 (0) 432 79
	CR.	Ī	\$1,284.79
Dec. 31	For Sundry Sales	\$107 39 752 53	X50 92
	Expenses of same for 1878 (Exhibit "C,")		\$42× 17

#### ABSTRACT

o F

# House of Refuge Accounts.

# EXHIBIT "I."

#### Furniture and Fixtures.

187	8.	Dr.	
Jan. Dec.	31	For Balanee on hand	\$912.91 7.20
	i	Cr.	\$920 11
Dec.	81	For Balance on hand. (Exhibit "B,")	77885
		Expense of same for 1878, (Exhibit "C,").	\$146,26

# EXHIBIT "II."

# Clothing and Bedding.

187	78.		
		D <sub>R</sub> .	
Jan. Dec.	1 81	For Balance on hand	\$1,372.85 870.07
		Cr.	\$1,742 92
Dec.	31	For Balance on hand (Exhibit "B")	720 08
		Expense for same for 1878 (Exhibit "C")	\$1,022 86

1070

# EXHIBIT "III."

# Chair Shop Account.

Dr.	
Jan. 1 For Balance on hand	\$ 42 73 338 20 526 29
('R.	\$902 24
Dec. 31 For Cash Received for Cane Seating	883 24
" Balance on hand (Exhibit "B,")	\$ 19 (1)

# EXHIBIT "IV."

#### Shoe Account.

!	I)r.	
Jan. 1 Dec. 31	For Balance on hand. " For Shoes purchased from Workhouse	\$ 86 50 270 50
	. Cn	\$357 00
Dec. 31	For Balance on hand (Exhibit "B")	251 96
	Expenses of same for 1878 (Exhibit "C")	\$105.04

# EXHIBIT "V."

# Boarding Account.

	Dr.		
Dec. 31	For Officers' Board		\$ 432,00 6.609,11
	('R.	Ī	\$7.041 11
Dec. 31	For Amount received, viz: From Cuyahoga County " Individuals	\$4,301;49 9001	4_300 50
1	Expense of same for 1878 (Exhibit "c")		\$2,641 61

# WORKHOUSE STATISTICS.

#### TABLE NO. 1.

	Males.	Females.	Total.
		•	
Remaining January 1st, 1878	282 753	52 222	334 975
Total Discharged during 1878	1085 810	274 228	1309 1038
Total remaining December 31st, 1878	225	46	271

#### TABLE NO. 2.

#### Number Received Each Month.

		Males.	Females.	Total.
Remair	ning January 1st, 1878	242	52	884
teceive	ed January, 1878	57	17	74
	February, "		18	57
••	Jiarch,		19	73
	April,		17	88
••	Ma),		17	83
,,	June, "		17	61
	July,		23	96
44	August		22	92
44	Septemb'r, "		20	90
**	vetoper		17	73
••	Novemb'r, "		26	94
••	December, "	78	14	90
Tot	al	1035	274	1309
)ischai	rged during 1878	810	228	103
	ning December 31st, 1878	225	46	27

#### TABLE No. 3.

# Committed by the Following Courts:

Police Court		1
Ponce Court.		916
Common Pleas Court. United States District Court Probate Court Justice Court		. 1:
United States District Court		1 7
Probate Count	•	"
Trobles Count	• • •	1 2
Justice Court		1
Total		97
	· · · ·	
	• • • •	`` <b> </b>

# TABLE No. 4,

# Offenses.

Attempting to pass and having in possession false U. S. coin	
Abusing family	
" Children	
" Family and intoxication.	
Assault and battery	
Assaulting Officer.	
Attempting to provoke a breach of the peace,	• • •
Awaiting trial.	
Assault and battery and lewd and lascivious language	• • •
	• • • •
Breaking into rail road car in the day time	
Cruelty to animals and intoxication	
Conspiracy	
Common prostitute	
" Beggar	
arrying concealed weapons	
mnk	
Destroying property	
Disorderly conduct	
" And intox cation	
Obtaining goods by laise pretenses	
sturbance	
•••	• • • •
kecution	
mbezzlement	
ambling	
ouse breaking	
" And larceny	
abitual disturbance	
ntoxication	
" And resisting officer	
" Execution	
" Indecent Conduct	
" Vagrancy	
" Petit larceny	••
" Destroying property	
ndecent Conduct	
Ceeping house of ill fame	
" Disorderly house	
" Gambling "	
arceny	<b></b>
" And receiving stolen property	
laliciously destroying property	
laking and having in posession false U. S. coin	
" False U. S. coin	
Distaining money by false pretenses.	
" Goods " " Goods	
Obstructing officer	
Petit larceny.	••
	· • •
addles with one license	

#### TABLE No. 4.—Continued.

Passing counterfeit coi	<b>C.</b>	2
	fame	18
	1811C.	10
	using family.	
		1
	be a U. S. revenue officer	1
	tamped cigars	1
	nstamped fermented liquors	1
	osession false U. S. coin	1
" Receiving st	tolen property	1
Suspicious person		89
Unlawfully using U. S.	mail	1
" Delivering	a corpse for the purpose of medical and surgical study	1
	culating note of U. S	. 1
	posession false U. S. coin	5
	me	16
	enue laws	10
	ad Ordinance and disorderly conduct	•
" Property	"	2H
1 Toperty		20
" Fire Arm	" And petit larceny	1
Fire Atm	**** ********************************	8
" Park	***************************************	1
Vagrancy		178
Total		975
	***************************************	815

#### TABLE No. 5,

# Discharged During the Year.

	Males,	Pemales.	Total.
y labor	517	113	(530)
" and Cash	115	71	186
" " Pardon	61	l '6 l	67
" " Escape	1	Ü	i
" " Pardon and Cash	15	4	19
Pardon	18	5	23
" and Fine Paid	7	8	15
COSUS	1	0	1
Expiration	32	2	34
and rardon		8 1	12
Death	3	0	3
Cash.	i	1 11	2
" and Pardon Fine Paid	10	3	
	10	1 3 1	14
' Escape	5	1 51	9
Taken for Trial.	12	I XI	10
Sent to Infirmary	10	ľi	î
Total	810	2238	1038

Table No. 6.

Monthly Average in Confinement during the Year.

Average r	umbe	r Males	203.
**	**	in Refuge	84 7

Table No. 7.

Committed for Sundry Offenses.

		Males.	Pemales.	Total
	<del>-</del>		1	
First Commitme	ent	427	72	499
Record "		139	44	181
Third "		79	28	107
Fourth "		27	21	48
Fifth "		24	l 16 l	40
Sixth "		15	l ii l	20
seventh "		īí	l -ē 1	17
Eighth "		-6	l š l	ii
Sinth "		ŭ	3	
renth "		ĝ	ž	11
		2	💈	
Mercum		õ	ءً	
wentu			1 3 I	•3
mræmm		-	3 2	
ourteenth "		ō		2
ifteenth "		1	2	- 4
ixteenth "		2	0	2
Seventeenth''		2	] ] [	7
Eighteenth "		2 2	1 1	***************************************
Nineteenth "		2	0	3
Iwentieth "		1	0	1
Total		753	292	975

# Table No. 8. Color.

	Males.	Females.	Total.
White	724 29	211 11	936 40
Total		. 222	975

# TABLE No. 9.

# Nativity.

n 1		
Ingland		
reland		
ermany		
anada		
cotland		
rance		
Vales		
witzerland.		
ustralis.		
de of Man		
ohemia.	· · · • •	. [
Iolland		. 1
uss <u>ia</u>		.
weden		. [
Tuela		
avaria		. 1
lungary	<b></b> .	
Iolland		. 1
		L
		1

#### TABLE No. 10.

#### Education.

	Wales.	Females.	Total.
Could read and write.  " Neither read nor write	631 89 33	144 43 35	775 190 70
Total	758	2222	975

#### TABLE No. 11.

# Religious Training.

	Males.	Females.	Total.
Protestants Catholics. Jews. Atheists Preethinkers	383 358 3 5 4	122 99 1 0 0	505 457 4 5 4
Total	753	222	975

#### TABLE No. 12.

# Habits of Life.

	Males.	Females.	Total.
Claim to be temperate	9225 5228	48 174	273 702
Total	753	222	975

#### TABLE No. 13.

#### Social Relations.

	Males.	Pemales.	Total.
Married	264 489	158 64	422 553
Total		222	975

#### TABLE No. 14.

# Age when Admitted.

Thirty	and	over	Twer	ity.	• • •	 	٠.	•••		 • • •	 	 	٠.	-
Forty	**	**	Thirt	<b>y</b>		 			 	 	 ٠.	 	٠.	
Fifty	**	**	Fort	ř.		 	. <b>.</b> .		 	 	 	 		
Sixty	66	66	Fifty			 			 	 	 	 		
Sixty Sevent	v "	44	Sixty											
Eighty	٠.,	**	Seve	nty		 		•	 	 	 	 		::

# TABLE No. 15.

# Occupations.

akers.	1 8	Jewelers Laborers	
			-
arbers.	. 8	Laundryman	
lacksmiths	15	Laundress	
oiler Makers	8	Lawyers	
ook Binder	1	Lecturer	
rick Layers	5	Lecturess	
rass Finisher	1	Locksmith	
lasket Makers	ā	Lather and Plasterer	
rewers	ā	Machinists	
	8		
Bar Tenders		Musicians	
koatinen	3	Moulders	
Butchers	11	Musical Instrument Maker	
Bottler	1	Millwrights	
Book Keepers	8	Milliner	
lox Maker	1	Marble Polisher	
Bridge Tender	i	Nail Maker	
oal Miner	i	Paper Hanger	
arpenters	33	Pail Turner	
ooks	17	Printers	
'oopers	18	Plasterer	
'igar Makers	12	Painters	
'lerks	10	Plumbers	
ompositor	1	Peddler	
oachman.	ĩ	Puddler	
onfectioners.	2	Railroaders.	
	ã		
abinet Makers		Rougher	
aner	1	Roll Finisher	
ork Worker	1	Sawyer	
'ivil Engineer	1	Saloon Keeper	
'urriers	2	Shipping Clerks	
Oriver	1	Seamstress.	
)ruggist	ĩ	Slate Roofers	
res Makers	11	Sailors	
Distiller	i	Stone Masons	
	i		
)yer		Shoe Makers	
Ingineers	7	Soldier.	
Engraver	1	Spring Maker	
armers	8	Steam Fitter	
Aremen	12	School Teacher	
Florist	1	Salesman	
inisher	î	Sling Maker	
resco Painters		Student	
	2 1	Sash and Blind Maker	
rainer			
lardeners	4	Stove Mounter	
lilders	ĩ	Stone Cutters	
lass Blower		Tinsmith	
lostlers	18	Trunk-box Maker	
louse Workers	199	Tailors	
lack Drivers	2	Tailoress	
latter	ĩ	Teamsters.	
	4		
		Upholsterer	
louse Keeper	1	Waiters	
Horse Clipper	1	Weaver	
Teaters	3	Well Diggers	
ron Workers	2.	****	
	_		

# House of Refuge Statistics.

TABLE No. 1.

# House of Refuge.

	MALES.	Females	TOTAL.
Remaining January 1, 1878	87	2	89
	76	10	86
Total	163	12	175
Discharged during 1878	90	9	99
Total remaining December 31, 1878	78	3	76

TABLE No. 2.

# Number Received in House of Refuge Monthly.

			MALES:	Frmales	TOTAL.
Remainir Received	ng Janu during	uary 1, 1878  y January, 1878  February, "  March, "  April, "  May, "  June, "  July, August, "  September "  October, "  November "  December, "	8 2 9 12 5	2000 11 21 00 10 30 1	80 3 9 9 6 9 10 12 4
		ng 1878	163 90	12 9	175 <b>99</b>
Rema	ining l	December 31, 1878	73	3	76

TABLE No. 3.

From Where Those Admitted during the Year were Received.

	MALES.	FEMALES	TOTAL.
From Police Court	75 1	10 0	85 1
Total	76	10	86

#### TABLE No. 4.

# Crimes and Offenses.

-	MALES.	FEMALES	TOTAL.
Incorrigible Conduct Pott Larceny Vagrancy Violating Property Ordinance Bootblack "Bootblack Conduct Bootblack Conduct Bootblack Conduct Destroying Property Assault and Battery Intoxication Disorderly Conduct	14 7 1 0	4 3 1 0 0 1 0	26 29 15 7 1 1 1 1
Total	76	10	86

# TABLE No. 5. Discharged During the Year.

	MALES.	FEMALES	Тотаь.
-			
Reached Honor Pardoned. Escaped Died Writ of Habeas Corpus.	23 7 1	0 9 0 0	58 32 7 1
Total	90	9	99

#### TABLE No. 6.

• •				MALES.	Frmale	Тотаі
Whole	numbe "	r Inmat	es Received during the year, Discharged " " " Remaining Dec. 31, 1878			175 99 76
Av	erage n	umber	of Inmates			84 6-12

# TABLE No. 7.

#### Color.

,	MALES.	FEMALES	TOTAL.
White	70 6	10 0	80 6
Total	76	10	86

#### TABLE No. 8.

# Nativity.

	Males.	FEMALES	TOTAL.
Canada United States Ireland Germany Scotland England	3 59 4 6 1	0 9 1 0 0	3 68 5 6 1
Total	76	10	86

#### TABLE No. 9,

#### Education.

	MALES.	FRMALMO.	TOTAL.
Could read and write	52 16 8	7 2 1	50 18 9
Total	76	10	88

TABLE NO. 10.

# Religious Training.

•	MALES.	Frmales.	TOTAL.
Protestants Catholics Jews	39 32 5	6 4 0	45 36 5
Total	76	10	86

#### TABLE NO. 11.

#### Social Relations.

	Males.	FEMALES.	TOTAL.
Having Both Parents " One Parent Orphans Total	48 222 6 76	6 1 3 10	54 23 9

#### TABLE No. 12.

# Age when Admitted.

	MALES.	FEMALES.	TOTAL.
Under Ten Ten to Twelve Twelve to Fifteen. Fifteen to Eighteen. Total.	8 29 31 8	1 1 5 3	9 30 36 11 

# MEDICAL REPORT.

To the Honorable Board of Directors of the Cleveland Workhouse and House of Refuge and Correction:

Gentlemen:—I have the honor to present a report of the Medical Department of the Cleveland Workhouse and House of Refuge and Correction, for the year 1878.

During the year two hundred and fifty-one (251) visits were made; eleven hundred and fifteen (1,115) patients were treated; of these eight hundred and thirty-nine (839) were males and two hundred and seventy-six (276) were females; two thousand and fifty-two (2,052) prescriptions were dispensed—one thousand five hundred and thirty-seven (1,537) to males, and five hundred and fifteen (515) to females.

Four deaths have occured—Gustavus Castor, from inflammatory rheumatism, sick two days, the disease went to the heart. Patrick Cratty, from peritonitis, (inflammation of the covering of the bowels), sick eighteen hours. John C. Connor, from delerium tremens, and Jno. A. Davenport, from consumption.

The sick have had good care from the Matron and other officials.

I am indebted to Dr. G. W. Stephenson for prompt and valuable assistance.

Yours very respectfully,

H. F. BIGGAR,

Surgeon in Charge.

CLEVELAND, OHIO, January, 1879.

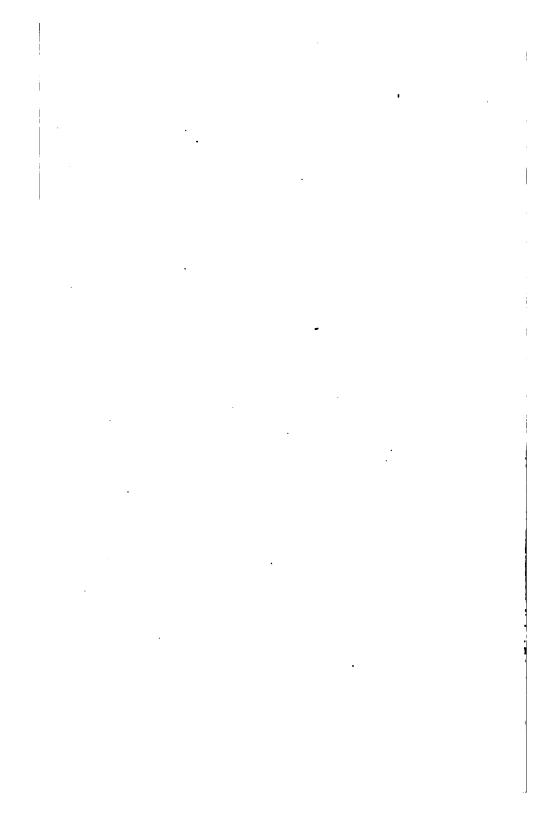
# ANNUAL REPORT

OF THE

# Board of Infirmary Directors,

FOR THE

YEAR ENDING DECEMBER 31, 1878.



# Infirmary Directors' Report.

To the Honorable City Council:

GENTLEMEN: We herewith hand you our Annual Report for the year just closed and beseech for it the attention of your Honorable Body.

The past year has been a very severe one for all who depend on their labor for their daily bread, and consequently the applications for relief have not greatly diminished, but while the applicants are as numerous as formerly the successful applicants are a comparatively small class, and comprise all or nearly all the worthy poor of Cleveland. excepting the small number depending on private charity.

The system of rigid inspection and disregard of outside recommendation which is in reality the strict application of the laws regulating Infirmary management, has fully vindicated itself, and we need only say that it is still in force. But we have since our last Report supplemented it with the work system, which consists in furnishing worthy applicants with work and paying them with groceries and coal in quantities as are absolutely necessary. In the Reports of the Clerk will be found detailed records of the work performed. The results achieved by this policy are astonishing even to its originators, as will be seen by the Report.

The Report shows that  $725\frac{1}{2}$  days were worked on the farm, and how largely this labor was utilized in the erection of the new barn, and other improvements made during the year, will be seen from detailed Reports containing description and cost of buildings.

While referring specially to the detailed Reports we will here state that the value of the work performed by the out door relief applicants being 282 was \$500. But while this amount is clear gain as under the old system, the men who earned it would have been supported in idleness. Even that does not set forth the value of the work policy, for its greatest recommendation is that it furnishes an infallible method of discriminating between the worthy and unworthy. No matter how keenly and fairly personal investigation is conducted cases to doubt will always arise. In such cases we give the applicant the benefit of the doubt, and offer work, and no man who labors faithfully for the pay we give can be very unworthy.

Experience and consideration has convinced us as well as the officers, whose entire time and attention is given to these problems, that an extension of the work system would render our present plan of management as nearly perfect as an Institution of this kind can become.

We refer to the plan of providing some light and indoor work such as picking oakum, for those capable of such work, but incapable of the severe labor we now require. In manv instances there are invalid young persons, old people, and strong, able women, whom we are even now compelled to support at the public expense, and who could easily earn the amount now given them, were we able to offer some light indoor labor. to those who are capable of working, and few lack the strength necessary to pick oakum. We, therefore, propose, with your approbation, to arrange the large and commodious apartments in the second and third floors of the building we now occupy which are now unused, for the manufacture of oakum, and then give all persons (whom by reason of their sex, or physical infirmities we are unable to employ at present) an opportunity to earn an honest livelihood. Some may shrink from the idea of exacting labor from women, but, gentlemen, honest labor is no disgrace, and is it not more honorable for a woman to earn a living than to be supported in the degraded and degrading character of a pauper? It is not only in the light of pecuniary benefit that we urge this measure. We believe the moral effect to be of more importance, and as we have often stated it is an undeniable fact that pauperism is encouraged, and self respect and habitual industry is discouraged by the policy of supporting people in idleness.

We request, therefore, your earnest attention to this proposition, in the certainty that it will meet with your approval, and confident that its adoption will complete or nearly complete the good work of reform begun in the Department by the adoption of the store system in 1876. We say that with this improvement in the plan of organization, the Infirmary Department will be nearly perfect, that is to say as nearly perfect as can be under existing laws regulating Infirmary matters.

That these laws are sufficient for the economical administration of the Infirmary fund, we have, as we believe, demonstrated. But our experience has gradually convinced us that the general law of the State fails to give the Infirmary Directors power to repress pauperism, as it should be repressed. It certainly is self-evident that any person who falsely represents himself or herself to be a fit and lawful subject of public charity, should, upon detection be severely punished. The law provides no punishment for such offences. The consequence is that there is a class in this community who expend a large portion of their time and energy (which should be devoted in honest labor) to conceive and execute plans of plundering raids on the Infirmary fund. Of course the investigators frequently detect the guilty parties, but as detection is not followed by serious consequences to the guilty ones, it simply causes them to change their plan of procedure. We would, therefore, very urgently desire your Honorable Body to request and urge the Legislature of Ohio to pass a law making it a penal offence to obtain goods or money from the Infirmary fund through false We assure you, gentlemen of the Council, that one case for such an offence would do more for the suppression of pauperism than the employment of twenty extra investigators. It would diminish the number of applicants more than the most complete return of good times.

Another class of applicants whom we cannot reach under existing laws, are those who are afflicted with drunken, worthless, criminal husbands, who have for years been legal recipients of public charity. Husbands who have utterly failed to provide for their families. Some of these women are hard working, industrious persons, who make strenuous though unsuccessful efforts to support their entire families, and were they freed from the burdens of a worthless husband, and consequent maternal duties, would become respectable and worthy members of society. In other cases both wife and husband are worthless and degraded. We never grant relief to such people without regret and a feeling that wrong is being done to society at large and to the worthy people of Cleveland especi-The custodians of the Infirmary fund have no power to change this state of affairs. What is needed is the power to disorganize families that are a burden to the community.

In the case of a respectable woman with a drunken, worthless husband or where the parents are both unworthy, the Board of Infirmary Directors should have the power of bringing the guilty ones into court, where if the husband were found guilty of willful neglect to provide his family with the necessaries of life, and where the allegations of unworthiness against the wife are sustained, either or both should be sent to the Workhouse, and the children taken to public or private charitable institutions where they would be freed from the evil influence of their parents, and where they would be given an opportunity to become useful citizens. These suggestions are the results of our official experience, and we are convinced that the power of disorganizing pauper families, to compel able-bodied but vicious people to labor, should be vested in the legal custodians of the large sum of money which was intended to relieve the sufferings of honest misfortunes, but which is too often made the

means of sustaining and nourishing persons in idleness and vice. We therefore recommend such additions and amendments to the Infirmary laws as will confer upon the Board of Infirmary Directors the power to carry out the reforms suggested.

We would also recommend to your consideration the suggestion of the Steward that a special fire alarm-box be placed near the Infirmary buildings. We hope, in common with all taxpayers, that no demand for the Fire Department will ever come from the Infirmary. But should the Infirmary buildings ever take fire, it should be of the highest importance that the Fire Department receive prompt information. To this end we we hope your Honorable Body will order that another alarmbox be placed near the Infirmary buildings, that the alarm-box at present in use on the buildings may be accessible to the Steward of the Infirmary only. We beg to suggest another valuable improvement, that of erecting a telegraph line between the Infirmary and the Infirmary office. much valuable time is lost by running between the two places and what is worse, unnecessary suffering is often inflicted on sick and dving applicants pending a visit of the Steward of the Infirmary. Formerly this evil was lessened by the allowance of \$300 for a horse for the use of the Department, but a telegraph line will be a permanent improvement and vastly more effective. By its use business which now requires hours of time can be adjusted in a few minutes, and many errors We trust your Honorable Body will order the erecavoided. tion of such a line at once.

Considering that the Infirmary fund has been chronically overdrawn for many years and that the Infirmary Directors for years have come before your Honorable Body like Oliver Twist, crying for more, you will pardon us if we refer to the present state of the Infirmary fund with some pride. The balance of \$19,630 83 to the credit of the fund is an eloquent commendation of our management. A self-supporting Infirm-

ary Department would be impossible. But if our present system is adhered to a few years, we feel certain that the Cleveland Infirmary will have a yearly showing of public work performed of equal value to the amount expended, and such a state of affairs is certainly a consummation devoutly to be wished for.

In conclusion we would return our thanks to the officers of this Department, who have performed their duties to our entire satisfaction. We congratulate ourselves on having secured the assistance of gentlemen whose intelligent zeal has made the execution of our plans for improvement possible, and whose co-operation has lightened our labors, and made our official associations pleasant and harmonious. And we believe the tax-payers have every reason to congratulate themselves on the acquisition and retention of such conscientious and capable public servants.

We annex the following Department Reports of the Superintendent and Clerk, and Steward and Physician, which give a general summary of both branches and will be found both interesting and instructive.

Respectfully submitted,

JACOB BLUIM, Clerk.

#### SUPERINTENDENT'S AND CLERK'S REPORT.

#### To the Board of Infirmary Directors:

Gentlemen:—We hereby submit to your consideration our Report for the year 1878, illustrating the department financially, together with tables showing the amount and character of relief extended, the nativity of the applicants, the wards in which they reside, etc., etc.:

#### FINANCIAL REPORT.

#### RECEIPTS.

Receipts from Taxes	\$70,151 1	7
Receipts from County	5,101 1	10
Receipts from Township	1,218 9	14
Receipts from Steward	80 7	o
Receipts, Miscellaneous	7,119 0	ie
Total receipts		\$83,616 0

#### DISBURSEMENTS.

Total	\$83,616 00
Balance on Hand January 1, 1878	
Paid for Improvements	1,807 00
Paid for Running the Infirmary.	
Paid for Running the Outdoor Relief Department	82,856 37
Paid for Bills Contracted in 1877	t I
PROPERTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS	

Applicants Relieved in 1877, Total Number	2,825	
Applicants Relieved in 1878, Total Number	1,894	
Decrease in 1878		931 
Total Admitted into the Infirmary in 1877	439	
Total Number Admitted into the Infirmary in 1878	326	
		440
Decrease in 1878		113
Total Number Relieved by Outdoor Relief in 1877	2.386	====
Total Number Relieved by Outdoor Relief in 1878	1	
Decrease in 1878.		818

The total number relieved by outdoor relief during the year, including the children, was 6,006; of this number 499 were widows, 155 lone men and women, 808 were men representing families, and the remainder, 4,564, were children.

#### RELIEF DISBURSED.

During the year the applicants for outdoor relief received 25,868 pounds of beans, 97,171 pounds of cornmeal, 3,131 pounds of coffee, 289,492 pounds of flour, 2,000 pounds of oatmeal, 2,400 pounds of salt pork, 3,650 pounds of peas, 3,240 pounds of potatoes, 7,860 pounds of rice, 3,096 pounds of sugar, 2,539 pounds of tea, 84 orders for fresh meat, 366 pairs of shoes, 3,290 tons of coal, 822 passes for transportation, 118 orders for burial. It required 38,500 paper bags to prepare the groceries and provisions for delivery.

The total number of orders issued for work to the applicants for outdoor relief was 835. The orders called for one, two and

three day's work. Of this number 282 were returned signed by the Steward of the Infirmary, which certified that the applicant had worked as required by the order. The applicants who returned these orders performed 7254 days' work, for which they received coal and groceries at cost price, valued at \$495 15. The rules require the applicant to work one day for groceries and three days for one ton of coal, and are to receive from seventy-five cents to one dollar per day. The applicants were employed to assist in the erection of the new barn and icehouse, cutting ice, and chopping wood on the Infirmary farm. The barn is 32x52 in size, and has room for eight horses. total cost of the same was \$1,692 82. \$125 00 of this amount were paid for plans and specification, and superintending the work; \$1,037 50 were paid to contractors for the mason and brick work; \$120 00 to contractors for doors and windows and frames; \$369 75 was paid for lumber, and \$40 57 was expended for miscellaneous purposes. The ice-house is 26x20 feet, capacity 200 tons, and contains a large cooling room. It was built at the cost of material only. No skilled labor was employed on either structure, and it is estimated that these improvements, if completed by contract, could not have been less than \$2,600 00.

Respectfully submitted,

JAMES CHRISTIAN,

Superintendent.

SHOWING THE NUMBER OF APPLICANTS IN EACH WARD, THEIR NATIVITY, AND THE NUMBER OF CHILDREN HAVING RECEIVED OUTDOOR RELIEF DURING THE YEAR 1878. TABLE No. 1.

  -  -
8 4
22 11 50 43
8 1 12 14
6 3 36 37
11, 23, 11
<b>83</b>
1 2 3 7
8
3 2 2 1
.:
48 42 122 208 150
Total Number of Children and Applicants

SHOWING THE NUMBER OF APPLICANTS RELIEVED IN 1877 AND 1878, AND THE REDUCTION IN TABLE No. 2.

EACH WARD MADE IN 1878.

JACOB BLUIM, Clerk. Respectfully submitted,

#### STEWARD'S ANNUAL REPORT.

Following is the Annual Report of the Steward of the City Infirmary for the year ending December 31, 1878:

	Male.	Female	Total.
Number of Inmates Remaining Dec. 31, 1877.	188	106	272
Number of Inmates Admitted During the Year	200	126	326
Number of Inmates Born During the Year	8	10	13
Total	389	242	611

-	Male.	Female	Total.
Number of Inmates Discharged During the Year	168	119	290
Number of Inmates Died During the Year  Number of Inmates Remaining Dec. 31, 1878	30 171	15	43 278
Total	389	242	611
Avapaga Waakly Number		1	

#### INSANE AND IDIOTIC.

Total Number of Insane and Idiotic, January 1, 1879	121
Children Under 12 Years of Age	6

#### HOSPITAL.

		· • • • • • • • • • • • • • • • • • • •	
	Maic.	Female	Total.
Number Remaining in Hospital Dec. 31, 1877	25	20	45
Average Weekly Number	28	17	45
Total Number Remaining Dec. 31, 1878	30	21	51

#### NATIVITY.

United States,	Norway, 4
Ireland,195	Poland, 4
England, 67	Scotland, 8
Bohemia, 7	Russia, 2
Canada, 20	Isle of Man, 2
France,	Sweden, 2
Germany,119	Unknown, 8
Holland, 5	Total,

#### OCCUPATION.

Ship carpenter, 15	Stone masons, 8
House carpenters, 14	Bricklayers, 8
Bakers,	Laborers,
Butchers, 5	Pedlers, 6
Blacksmiths,	Sailors,
Bartenders, 10	Teamsters, 12
Brewers, 2	Painters, 15
Engineers, 7	Printers, 5
Coopers, 10	Upholsters, 4
Cooks,	Cigar makers, 2
Clerks,	Moulders, 3
Dressmakers,	Wagonmakers, 4
Servants,	Druggists, 2
Farmers,	Roofers, 2
Tailors, 5	Whitewashers, 2
Weavers, 5	Unknown,
Wash women, 20	
Gardeners, 20	10081011

The following articles were made by the inmates at the City Infirmary at the cost of material only:

One heavy two-horse farm wagon, one double set of harrows, 24 wooden bedsteads, 125 night pails, 40 water pails, 35 wash tubs, 75 pairs of shoes, 70 coffins. All clothing and bedding necessary for the inmates, all repairing of shoes and clothing, and all blacksmithing except horse-shoeing. A new ice-house 26x20. Iron guards have been made and put on 86 basement windows of the insane and hospital wings. The usual repairing, such as relaying floors, painting and whitewashing. There were ninety-five cords of wood cut. The teams hauled 500 tons of coal, 230 loads of manure, 95 cords of wood, 160 tons of ice.

and hauled all the lumber to the farm for the new barn and icehouse, and did all expressing for the Infirmary, together with more farm work than has ever before been accomplished on the farm.

#### PRODUCE OF THE FARM.

Apples, 300 bushels at 30c.,	90	00
	82	••
Beans, 55 bushels at \$1 50		
Beets, 140 bushels at 35c	49	00
Corn, 2,434 bushels at 35c	852	90
Carrots, 205 bushels at 35c	61	75
Cabbage, 5,000 heads at 3c	150	00
Cornstalks, 35 acres at \$5 00,	175	00
Hay, 15 tons at \$11 00,	160	00
Oats, 444 bushels at 25c	111	00
Onions, 240 bushels at 30c	72	00
Potatoes 2,389 bushels at 65c	1,552	85
Parsnips, 100 bushels at 35c	35	00
Pasture, 15 acres at \$6 00	90	00
Pumpkins, 24 loads at \$2 00	48	00
Pork, 10,011 pounds at 4c	400	44
Straw, 11 acres at \$5.00	55	00
Turnips, 1040 bushels at 35c	364	00
Vegetables and small fruit,	150	00
Wheat, 190 bushels at \$1 00	190	00
Total,	<b>\$</b> 4,689	44

#### STOCK ON THE FARM.

Bull,1	
Cows,8	Pigs, (store)20
Calves,3	
Horses,	Sows (breeding)5

#### WAGONS, TOOLS AND IMPLEMENTS.

Farm wagons, 3; market wagon, 1; ambulance, 1, and a large stock of tools and implements.

The health of the inmates has been good considering the class admitted. There has been a large number of sick admitted, but the majority of the total number has come to the Infirmary to spend the remainder of their days.

In conclusion allow me to call your attention to the need of another fire alarm-box near the Infirmary to be used in case of fire in the vicinity of the Infirmary. It is highly important that the public should know when there is a fire at the Infirmary, but at present none would know that the building was the Infirmary was the building on fire until their arrival. This could be avoided by placing another box in the vicinity of the Infirmary grounds so that the box on the Infirmary would be used by the Steward and his Assistants only. At an Institution of this kind there is constant danger of fire. The necessity for this precaution is apparent and I trust it will receive your immediate attention.

The total expenditures for the year exclusive of permanent improvements was \$16,514 37.

The average cost of keeping each inmate per week was 1 23.9.

Respectfully submitted,

THOMAS ROME,
Steward of City Infirmary.

## Report of Infirmary Physician.

To the Board of Infirmary Directors:

GENTLEMEN;—I respectfully submit the following report for the year ending December 31, 1878:

#### REPORT OF SERVICE FROM APRIL 20 to DECEMBER 31, 1878.

	Male	Female	Total.
Number of Patients in Hospital April 20, 1878	30	18	48
Number of Patients Admitted from April 20 to December 31, 1878	85	51	136
Number of Births from April 20 to December 31, 1878	2	7	9
Total Number Treated	117	76	193

	Male.	Female	Total.
Discharged, Cured or Improved	71	46	117
Deaths in Hospital from April 20 to December 31, 1878	18	8	28
Still Born in Hospital from April 20 to Dec. 31, 1878		1	1
Remaining in Hospital December 31, 1878.	28	21	49
Total	117	76	193

Weekly Average, 45.

Number of Deaths in Insane Department, 6.

## REPORT FOR THE YEAR, INCLUDING SERVICE OF DR. ARMSTRONG, FROM DECEMBER 31, 1877, TO APRIL 20, 1878.

	Male.	Female	Total.
Number Treated in Hospital During the Year 1878.	139	107	246
Number Discharged, Cured or Improved During Year	87	76	163
Number of Births During the Year	8	10	13
Number of Deaths in Hospital During the Year	24	9	33
Number of Deaths in Insanc Dep't During Year	6	. 6	12
Total Number of Deaths in Hospital and Insane Dep't	30	15	45
	. ——	1	

#### CAUSES OF DEATH.

	Male.	Female	Total.
Consumption	11	4	15
Syphilis	2		2
Cancer		1	1
Paralysis	1		1
Heart Disease		1	1
Brain Disease	4	3	7
Inflammation of Lungs	1	¦	1
Brights Disease	1	j	1
Bronchitis	1	ˈj	1
Inflammation of Bowels	3	1	4
General Debility	1	1	2
Old Age	2	2	4
Dropsy		1	1
Accident	1		1
Abortion		1	1
Chronic Diarrhea	2		2
Total	30	15	45

The above tables refer to cases treated in the hospital only, and do not include the inmates of the insane and other departments of the Infirmary who are treated at the dispensary office. Of this class the weekly average treated during the year was thirty, of which number eighteen were males and twelve were females.

There has been no epidemic outbreak whatever during the year, which bespeaks credit to the location and scrupulous management of an institution containing an average of nearly three hundred inmates of all ages and degrees of infirmity.

While I have not thought it expedient to cumber this report by a technical classification of all the cases treated, I may say there has been somewhat the same variety usually found in hospitals.

As may naturally be surmised of an institution caring exclusively for the poor, we find among the worthy, made destitute by misfortune, many wretched by vice and intemperance. So that an analysis of the cases found here would show an unpleasant array of those diseases which legislation and sanitary measures have thus far failed to lessen.

But however unpopular the opinion, I venture the belief that the day will come when a wise and circumspective license system, covering more ground than is usually discussed in public, will render less frequent the repugnant sights and tasks of the physician.

The hospitals and insane departments here afford an interesting field of work and study for the physician and surgeon, and I have found my term of service, thus far, a valuable experience.

I wish to add my acknowledgment of the pleasant and cordial support which I have received at the hands of the Board and officers of the Infirmary; also of the efficient assistance of the apothecary and the several nurses, who, as I can bear testimony, have done their duties well.

B. W. HOLLIDAY, M. D., Infirmary Physician.



### ANNUAL REPORT

OF THE

# Board of Cemetery Trustees

TO THE

CITY COUNCIL,

FOR THE YEAR ENDING DEC. 31, 1878.

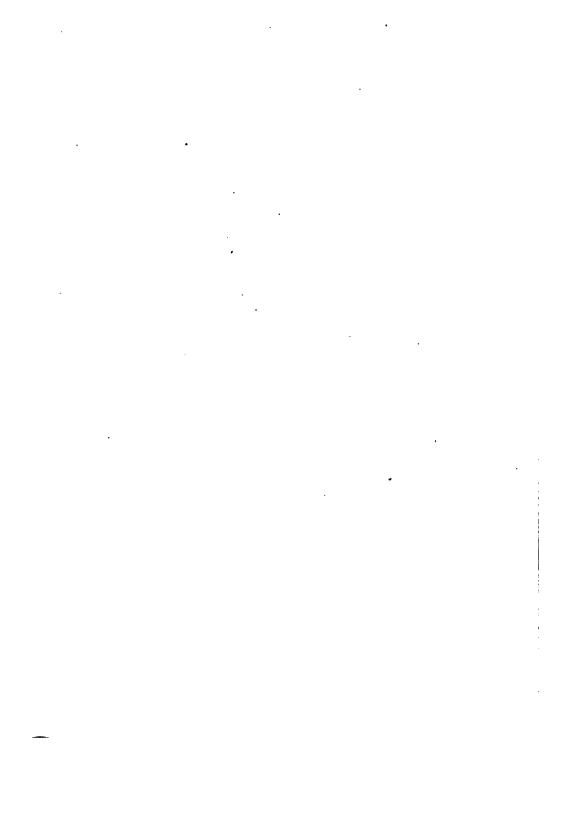
### TRUSTEES:

W. E. CLARKE, - - - PRESIDENT.

JAS. PARKER, - - - TREASURER

E. H. THIES.

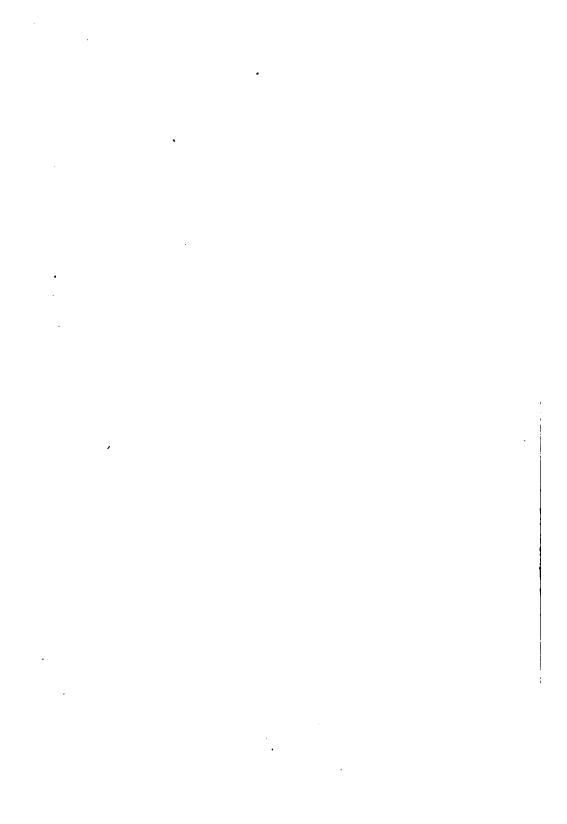
L. W. BAILEY. Secretary.



To the Honorable City Council of Cleveland, Ohio:

Gentlemen:—I have the honor to present your Honorable Body with the Annual Report of this Board for the year 1878: Respectfully yours,

L. W. BAILEY, Secretary.



### REPORT OF CEMETERY TRUSTEES.

CLEVELAND, January 1st, 1879.

To the Honorable City Council:

Gentlemen:—The undersigned Trustees of Cemeteries respectfully submit herewith our Annual Report for the year 1878:

The term of Trustee A. B. Halliwell expired in April last and at the municipal election on the first Monday in April Mr. James Parker was elected for three years.

At the first meeting (after said election), which occurred in May, the Board organized as follows: Trustee W. E. Clarke was elected Chairman; Trustee James Parker, Treasurer; and Mr. L. W. Bailey, Secretary, at a salary of \$100 per year.

It will be seen on examination of the Report of Finances, that owing to no levy being made in 1877 for cemetery purposes the Board are still obliged to continue the practice of paying running expenses out of the fund arising from sale of lots. If this had not been the case we should have in that fund \$7,890 95 instead of \$2,430 62, the amount now in that fund.

The cemeteries have been carried on during the past year with the closest economy and the result is a large reduction of expenditures below those of 1877. This reduction amounts to \$6,630 92. The receipts were less than those of 1877 by \$822 93.

A levy was made last year for Cemetery purposes to clear from the Auditors' books some special taxes standing against the Cemeteries. As the expenses over receipts for services and vault fees will not be any less the coming year than they were last, the Board would respectfully recommend a levy sufficient to place the amount of that excess to the credit of the Cemetery fund; that amount as may be seen in the tables is \$5,460 33.

Very little unoccupied ground remains at Monroe Street Cemetery and the Board have been obliged to prohibit burials on Infirmary orders there. This makes it necessary for all such to go to Woodland Cemetery from the west side of the river. More land is an absolute necessity on that side of the river, and it can now be had very cheaply. We would recommend that a Committee be appointed to confer with this Board in reference to the purchase of a piece of land adjoining Monroe Street Cemetery or elsewhere on the West Side. We would also recommend the appointment of a standing Committee on Cemeteries, to whom might be referred any matters pertaining to the same.

For the protection of the Cemeteries against body stealing the Board would recommend that there be established a Morgue in connection with the Police Department, where all bodies of unknown persons might be taken for recognition, and if not recognized, turned over to the Medical College, in accordance with the laws of the State. The law now says "may" be so delivered; now let your Honorable Body say that they "shall," then we will be relieved from a constant fear that graves are being robbed. It is not known that any body has been taken from any of the Cemeteries during the past year, but one, which was returned. A bold attempt was made last Fall to take the body of a prominent citizen from the vault at Erie Street Cemetery, which was frustrated by the vigilance of the watchman. That vault has since been made so secure, that another attempt of this kind could not easily succeed.

The Board herewith submit the tabulated statements of business done with receipts and expenditures; and would here make honorable mention of all the officers and employes of this Board. Where all have done so well, it would be invidious to mention any one in particular.

The revised statutes require that a plat of the Cemeteries shall be kept in the office of the City Clerk. These plats are very expensive, and it is absolutely necessary that one copy shall be kept at the Cemeteries. To make another would involve a large outlay, which the Board hesitate to incur without the positive order of the Council.

Respectfully,

W. E. CLARKE, E. H. THIES, JAMES PARKER,

Cemetery Trustees.

L. W. BAILEY, Secretary.

The interments during the year have been as follows:

	ADI	JLTS.	MIN	ORS.	Ŀ
CEMETERIES.	Male.	Female	Male.	Female	TOTA
Woodland Avenue	125	173	216	209	723
Erie Street	37	25	50	45	157
Monroe Street	94	73	97	63	327
Eighteenth Ward	14	14	26	16	70
Total	270	285	389	333	1.277

The lots sold in the City Cemeteries were as follows:

CEMETERIES.	No. Sold.	Price.	Cash.	Credit.
Wooland Auenue	431/4	\$3,263 90	\$ 1.836 90	\$ 1,427 00
Erie Street	*31	96 00	82 00	14 00
Monroe Street	634	1,315 00	575 00	740 00
Eighteenth Ward	7	125 00	103 00	22 00
Total	881/4	\$ 4,799 90	\$ 2,596 90	\$ 2,203 00

<sup>\*</sup>These were single grave spaces, as were also some of those in Monroe street.

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	Тоғы).	\$4,308 88 4,313 61	\$8,622 49		Перет	\$5,704.39	220 62	1,034 29	\$6,989 30
-	Лесешрег.	\$162 00 301 33	\$463 33		ресетрет.	28 S28		82 35	\$361 38
	November.	3485 65 369 35	\$855 00	!	November.	15 8X1-8	:	159 78	20 8898 10 10 10 10 10 10 10 10 10 10 10 10 10 1
1	October.	\$509 37 442 75	\$962 12	!	October.	\$497 41	19 35	104 39	302 15 302 15
	September.	\$359 14 310 50	19 699 <del>\$</del>	<u>i</u>	September.	19 1818	₹ 88	06 78	07 2005
	August.	\$482 00° 308 75	8785 75	ES.	Λυgust.	00 009\$	9	<b>8</b>	\$675 00
	July.	\$300 00 327 30	8008	DITCH	July.	\$619 89	10 15	31 74	\$661 88
	June.	391 00	\$874 57	CEMETERY EXPENDITURES	June.	\$577 61	<b>49</b> 70	3) 6	8684 53
	. ХвЖ	\$386 87 420 35	\$817.22	ETERY	May.	\$674 82	43 16	107 95	88 88 88
	April.	\$357 00 442 50	\$799 50	D CEM	lhqA	\$522 TS	94 96	¥ ₩	\$791 40
	March.	\$323 00 372 00	\$700 00	WOODLAND	March.	8401 58	:	41 59	
. !	. Гергиягу.	\$228 50 281 75	\$515 25 \$700	MO	Кергиягу	\$267 58	:	104 96	\$372 54 \$443 17
	January.	\$142 78 361 13	\$488 91	: 	January	\$288 45		118 45	<b>84</b> 11 90
	PROM WHAT ROURCK RECEIVED.	Sale of Lots. Services and Vault Fees	Total Receipts		FOR WHAT PURPONE EXPENDED.	Pay Roll.	Improvements	Current Expenses	Total Expenses

-		

MONROE STREET CEMETERY RECEIPTS.

ا ن	8 3	3 ;	ا ئ	64 55 18 00 43 15	8
TOTAL.	\$ 1,883 1,287	\$ 3,150	TOTAL.	8. L	36 \$ 3,021 30
December.	212 50 88 50	. 208 \$ 00	ресешрег.	34 13 30 34 13 30	34 \$ 182 36
November.	341 00 \$ 106 00 \$ 212 50 \$ 1,923 30 00 91 00 89 50 1,227	00 <b>\$ 326</b> 00	Мочетьег.	86 : 88 88 : 88 99 : 98	86 \$ 206 34
October.	341 00 80 00	00 187	October.	55 \$ 286 06 g	5
September.	118 50	215 50	September.	57. 5 288 65. 8	37. \$ 2899 55. \$
August.	50 \$ 159 00 \$ 118 50 \$	00 8 275 24 8 215 50 8 481	August.	8	
July.	92 SE	75 <b>S</b> 173 00	July.	37. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8.	908 \$ 98 86 \$ 90
June.	75 <b>\$ 121</b> 50 <b>\$</b>	75/8 329 75	A	13 98 13 98 13 98	316 05
Мау.	8 8	25.	May.	256 14 \$ 299 04 \$ 290 13 20 65 14 94 22	318 96
April.	50 134 75 1		April.	20 65	61 912
Жагор.	83 88	50 \$ 191 50	Marreh.	80 : 98 80 : 4 82 : 32 8 : 32	71 012
February.	50 05 05 128 55 55 85 85 85 85 85 85 85 85 85 85 85	301 50	February.	\$ 151 00 <b>\$</b>	48 \$ 163 90 \$ 210 77 \$ 276 79 \$ 313 96 \$ 316
January.	8 191 50 8 53 50	\$ 245 00 \$ 201	January.	8 : 8 8 : 8	\$ 194 48
ROM WHAT SOURCE RECEIVED.	Sale of Lots	Total Receipts.	KOR WHAT PURPOSE EXPENDED.	Pay Roll Improvements Current Expenses	Total Expenses

EIGHTEENTH WARD CEMETERY RECEIPTS.

1	TOTAL.	\$ 119 50	द्धाः इ	\$ 331 75	1	TOTAL.	\$ 480 00	\$50 \$	\$ 484 55
	<b>Decemper</b>	\$15 00	13 50	928 20	:	December.	00 0 <del>1</del>		00 07
	уолешры	\$10 00	13 00	823		МочешЪет.	00 07.5		00 OF
	October.	:	<b>821</b> 50	- CE 123	 	Осторет.	95		00 075
·a	edmotqe8	\$16 50	8	02 02 03	g,	September.	\$40 00	28	<b>27</b> 22 23
	August.	00 03 <b>\$</b>	21 00	, 22 - 23 - 24	DITURE	August.	9 <b>3</b>	1 00	<b>241</b> 00
	.Xint	:	\$13 00	\$13 00	EIGHTEENTH WARD CEMETERY EXPENDITURES	July.	970		00 018 00 018
	June.	\$ 8 00	15 50	523	FERY F	June.	<b>35</b>		00 075
	May.	\$15 00	19 75	15 48 15 48	CEME	.ybK	00 0		00 OF#
	April.		\$41 50	\$41 50	WARD	Apdl.	\$40 00	1 15	<b>\$1</b> 15
	Магећ.	<u>:</u>	222 50	25	SENTH	Матер.	95 95		00 044
	February.	. \$35 00	. <b>14</b> 00	13 00 \$49 00	EIGHTI	. Усргияту.	95		<b>97</b> 0 00
_	January.		\$ 13 00	\$ 13 00		Jennery.	00 O <b>3</b>	1 15	\$41 15
	PROM WHAT SOURCE RECEIVED.	Sale of Lots	Services and Vault Fees	Total Receipts.		FOR WHAT PURPORE EXPENDED.	Pay Roll	Improvements Current Expenses	Total Exponses

#### RECAPITULATION.

CEMETERIES.	RECEIPTS.	EX PENSES.	EXCESS.	DEFICE	Т.
Woodland	\$8,622 49	\$6,989 30	<b>\$1,633</b> 19		
Erie Street	1,039 13	1,845 55	İ ¦	\$806	4:
Monroe Street	3,150 49	3,021 30	129 19		
Eighteenth Ward	331 75	484 55	: 	152	80
Interest on Deposits	89 08		89 08		
Amount Paid for General Bills		133 90		133	90
Total	\$13,232 94	\$12,474 60	\$1.851 46	\$1,093	12
		<b>V24,111 00</b>	<b>\$1,001 TO</b>	Ф1,0 <del>00</del>	_
Receipts from all Sources			<b>\$1,001 TO</b>	\$13,232	-
					- 94
			<b>41,631 40</b>	\$13,232	- 94 60
Total Expenses Excess of Receipts over Expenses	nses		\$1,851 48	\$13,232 12,474	 94 60
Total Expenses	nses.			\$13,232 12,474	- 94 60

#### TREASURER'S SUMMARY.

Amount on hand January 1, 1878			\$ 1,672 28
Received from Sale of Lets:			
Woodland Cemetery	<b>\$4,308</b> 88		
Erie Street "	77 00		
Monroe Street "	1,923 00		
Eighteenth Ward Cemetery	119 50		
Total from Sale of Lots		\$ 6,428 38	
Received from Vault Fees;		1	
Woodland Cemetery	\$ 457 28	!	
Erie Street "	166 25	1	
Monroe Street "	156 63		
Eighteenth Ward Cemetery	23 00	I	
Total from Vault Fees		808 14	
Received for Services;		ļ	
Woodland Cemetery	\$ 3,856 35		,
Erie Street "	795 88		
Monroe Street "	1,070 86		
Eighteenth Ward Cemetery	189 25		•
Total for Services		5,912 34	
Interest on Deposits		89 08	
Total Receipts	•		13,232 94
Grand Total	•	ļ	\$14,905 22

#### TREASURER'S SUMMARY-CONTINUED.

Amount Brought Forward			\$14,905 22
Amount Paid for Improvements:			
Woodland Cemetery	\$ 250 62		
Erie Street "	84 57		
Monroe Street "	13 60	1	
Righteenth Ward Cemetery		1	
Total for Improvements.		\$ 296 79	
Amount Paid Pay Rolls and Current Expenses;	i		
Woodland Cemetery \$	6,738 68	_	
Erie Street "	1,810 98	Ì	
Monroe Street "	8.007 70		
Eighteenth Ward Cemetery	484 55	ļ	
Total Pay Rolls and Current Expenses.		12,041 91	
Total			12,340 70
Balance			\$ 2,564 52
Paid Secretary's Salary, Eight Months		\$ 66 65	
Paid for Printing and General Bills		67 25	
Total Expended for General Purposes			138 90
Balance to Credit of Fund Jan. 1, 1879			\$ 2,430 62

#### TREASURER'S SUMMARY.-CONTINUED.

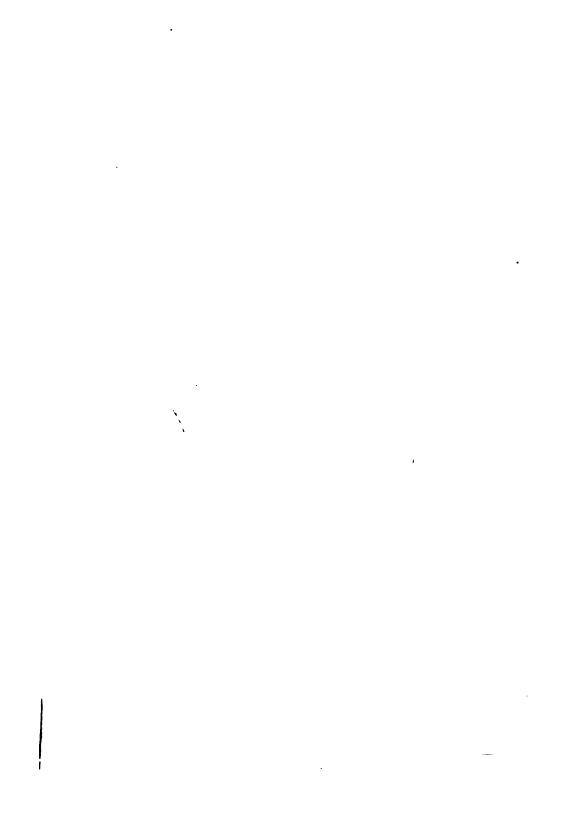
Amount to Credit of Fund Arising from Sule of Lots January 1, 1878		\$1,672 28
Received During the Year from Sale of Lots		6,428 38
Received Interest on Deposits		89 08
Total		\$8,189 74
Expended for Improv'g and Embellish'g the Cemeteries.	\$ 298 79	
Amount Taken from this Fund to Pay Pay Rolls and Current Expenses	5,460 33	
Total.		5,759 12
Balance Jan. 1, 1879, to Credit of Fund		\$2,430 62
Amount to Credit of Fund for Conord Purposes Ion 1		
Amount to Credit of Fund for General Purposes Jan. 1, 1878	-	
		\$ 6,715 48
1878	:	
1878		\$ 6,715 48
Received for Services and Vault Fees During the Year. Received from Fund for Sale of Lots		\$ 6,715 48 5,460 33

It will be seen by an analysis of the foregoing statement that the running expenses (other than for improvements) of the different cemeteries are largely in excess of the receipts for services and vault fees.

This Excess in the Case of the Woodland Cemetery is	07
This Excess in the Case of the Eric Street Cemetery is	85
This Excess in the Case of the Monroe Street Cemetery is 1,780	21
This Excess in the Case of the Eighteenth Ward Cemetery is 272	<b>3</b> 0
Total	- 43
Add to this the Amount Expended for General Bills 133 9	90
Total Excess of Expenses of\$5,460	33
over the receipts of the cemeteries applicable to this purpose.	

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